Panasonic

Operating Instructions
High Definition Plasma Television
Manual de instrucciones
Televisor de plasma de alta definición

Model No. **TH-42PC77U**
Número de modelo **TH-50PC77U**

Quick Start Guide

(See page 6)

Guía de inicio rápido

(vea la página 6)

- For assistance (U.S.A.), please call:
  1-888-VIEW-PTV (843-9788)
  or visit us at www.panasonic.com/contactinfo
- For assistance (Puerto Rico), please call:
  787-750-4300
  or visit us at www.panasonic.com
- For assistance (Canada), please call:
  1-800-561-5505
  or visit us at www.panasonic.ca

- Para solicitar ayuda (EE.UU.), llame al:
  1-888-VIEW-PTV (843-9788)
  ó visítenos en www.panasonic.com/contactinfo
- Para solicitar ayuda (Puerto Rico), llame al:
  787-750-4300
  ó visítenos en www.panasonic.com

HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE

HDTV

SD HD

English Please read these instructions before operating your set and retain them for future reference.
The images shown in this manual are for illustrative purposes only.

Español Lea estas instrucciones antes de utilizar su televisor y guárdelas para consultarlas en el futuro.
Las imágenes mostradas en este manual tienen solamente fines ilustrativos.

TQB2AA0861

Turn your own living room into a movie theater!

Experience an amazing level of multimedia excitement

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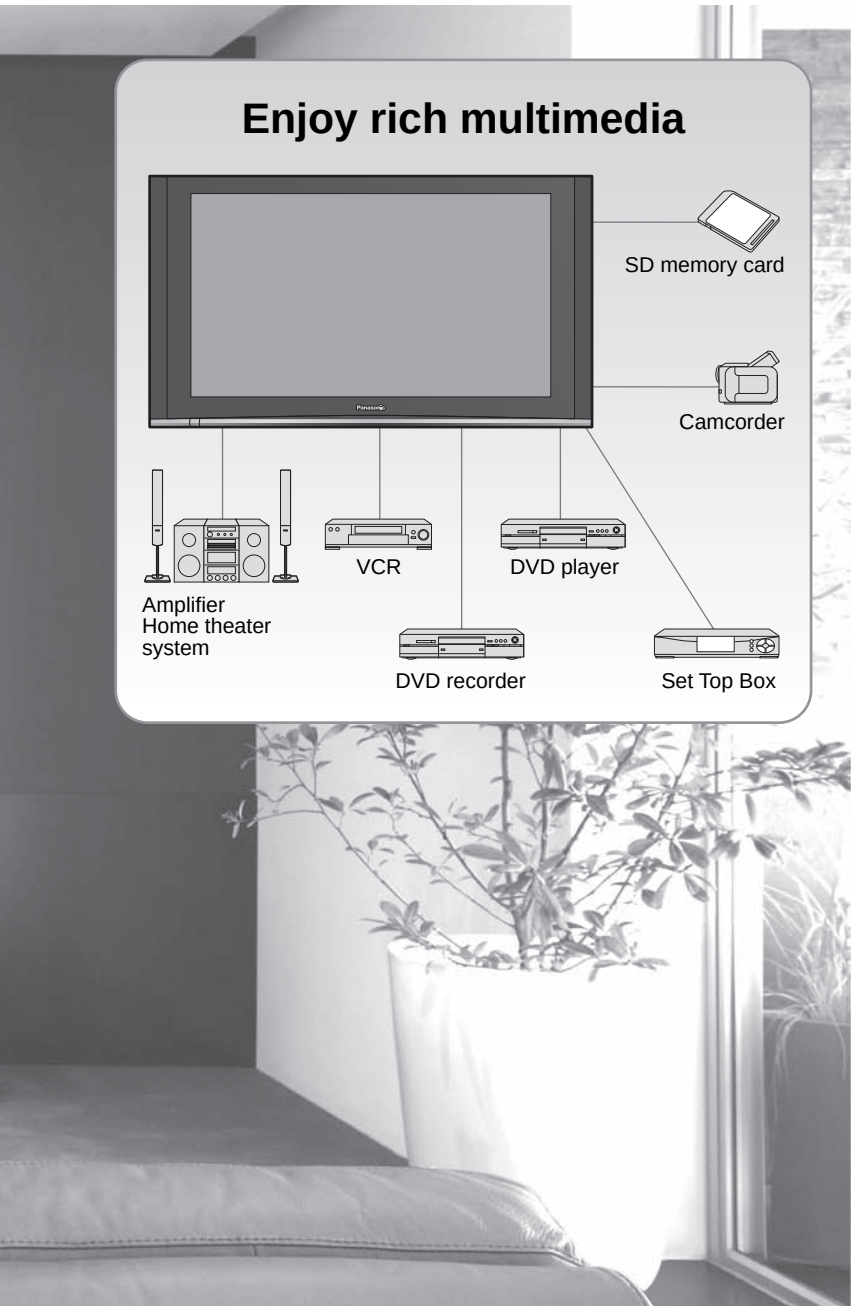
HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.		**HDAVI Control™** HDAVI Control™ is a trademark of Matsushita Electric Industrial Co., Ltd.



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Enjoy your TV!

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HDTV

ENERGY STAR

Manufactured under license from Dolby Laboratories.
DOLBY and the double-D symbol are
trademarks of Dolby Laboratories.

Safety Precautions

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

WARNING: To reduce the risk of electric shock, do not remove cover or back. No user-serviceable parts inside. Refer servicing to qualified service personnel.

The lightning flash with arrowhead within a triangle is intended to tell the user that parts inside the product are a risk of electric shock to persons.

The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the papers with the appliance.

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. Do not place liquid containers (flower vase, cups, cosmetics, etc.) above the set (including on shelves above, etc.).

Important Safety Instructions

1) Read these instructions.
2) Keep these instructions.
3) Heed all warnings.
4) Follow all instructions.
5) Do not use this apparatus near water.
6) Clean only with dry cloth.
7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11) Only use attachments / accessories specified by the manufacturer.
12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart / apparatus combination to avoid injury from tip-over.

13) Unplug this apparatus during lightning storms or when unused for long periods of time.
14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15) To prevent electric shock, ensure the grounding pin on the AC cord power plug is securely connected.

FCC STATEMENT

This equipment has been tested and found to comply with the limits for an Other Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the Panasonic Service Center or an experienced radio/TV technician for help.

FCC Caution:
Any changes or modifications not expressly approved by responsible party may cause harmful interference and could void the user's authority to operate this device.

Responsible Party:	Panasonic Corporation of North America One Panasonic Way, Secaucus, NJ 07094
Contact Source:	Panasonic Consumer Electronics Company 1-888-VIEW-PTV (843-9788)
email:	consumerproducts@panasonic.com

CANADIAN NOTICE:
For Model TH-42PC77U, TH-50PC77U
This Class B digital apparatus complies with Canadian ICES-003.

⚠ WARNING

SMALL PARTS CAN PRESENT CHOKING HAZARD IF ACCIDENTALLY SWALLOWED.
KEEP SMALL PARTS AWAY FROM YOUNG CHILDREN.
DISCARD UNNEEDED SMALL PARTS AND OTHER OBJECTS, INCLUDING PACKAGING MATERIALS AND PLASTIC BAGS/SHEETS TO PREVENT THEM FROM BEING PLAYED WITH BY YOUNG CHILDREN, CREATING THE POTENTIAL RISK OF SUFFOCATION.

■Set up

Do not place the Plasma TV on sloped or unstable surfaces.
- The Plasma TV may fall off or tip over.

Do not place any objects on top of the Plasma TV.
- If water spills onto the Plasma TV or foreign objects get inside it, a short-circuit may occur which could result in fire or electric shock. If any foreign objects get inside the Plasma TV, please consult an Authorized Service Center.

This Plasma TV is for use only with the following optional accessories. Use with any other type of optional accessories may cause instability which could result in the possibility of injury.
(All of the following accessories are manufactured by Matsushita Electric Industrial Co., Ltd.)
- Wall-hanging bracket (Vertical) TY-WK42PV3U
- Wall-hanging bracket (Angled) TY-WK42PR2U
  TY-WK42PR3U

Always be sure to ask a qualified technician to carry out set-up.
- Two or more people are required to install and remove the television. If two people are not present, the television may be dropped, and personal injury may result.

Transport only in upright position!
- Transporting the unit with its display panel facing upright or downward may cause damage to the internal circuitry.

■AC Power Supply Cord

The Plasma TV is designed to operate on 120 V AC, 60 Hz.
Securely insert the power cord plug as far as it will go.
- If the plug is not fully inserted, heat may be generated which could cause fire. If the plug is damaged or the wall socket plate is loose, they should not be used.

The included power cord is for use with this unit only.
Do not use any power cord other than that provided with this TV.
- Doing so may cause fire or electric shocks.

Do not handle the power cord plug with wet hands.
- Doing so may cause electric shocks.

Do not do anything that might damage the power cable. When disconnecting the power cable, hold the plug, not the cable.
- Do not make any modifications to, place heavy objects on, place near hot objects, heat, bend, twist or forcefully pull the power cable. Doing so may cause damage to the power cable which can cause fire or electric shock. If damage to the cable is suspected, have it repaired at an Authorized Service Center.

■If problems occur during use

If a problem occurs (such as no picture or no sound), or if smoke or an abnormal odor is detected from the Plasma TV, unplug the power cord immediately.
- Continued use of the TV under these conditions might cause fire or permanent damage to the unit. Have the TV evaluated at an Authorized Service Center. Servicing of the TV by any unauthorized personnel is strongly discouraged due to its high voltage dangerous nature.

If water or foreign objects get inside the Plasma TV, if the Plasma TV is dropped, or if the cabinet becomes damaged, disconnect the power cord plug immediately.
- A short may occur, which could cause fire. Contact an Authorized Service Center for any repairs that need to be made.

⚠ CAUTION

Do not cover the ventilation holes.
- Doing so may cause the Plasma TV to overheat, which can cause fire or damage to the Plasma TV.

If using the pedestal, leave a space of 3 15/16 ” (10 cm) or more at the top, left and right, 1 49/64 ” (4.5 cm) or more at the bottom, and 2 3/4 ” (7 cm) or more at the rear.

■When using the Plasma TV

Be sure to disconnect all cables before moving the Plasma TV.
- Moving the TV with its cables attached might damage the cables which, in turn, can cause fire or electric shock.

Disconnect the power plug from the wall outlet as a safety precaution before carrying out any cleaning.
- Electric shocks can result if this is not done.

Clean the power cable regularly to prevent it from becoming dusty.
- Built-up dust on the power cord plug can increase humidity which might damage the insulation and cause fire. Unplug the cord from the wall outlet and clean it with a dry cloth.

This Plasma TV radiates infrared rays; therefore, it may affect other infrared communication equipment.
Install your infrared sensor in a place away from direct or reflected light from your Plasma TV.
Do not climb up onto the television or use it as a step. (Young children should be made particularly aware of this caution.)
- If the unit falls over or becomes damaged through misuse, injury may result.

The TV will still consume some power as long as the power cord is inserted into the wall outlet.

Notes

■Do not display a still picture for a long time

This causes the image to remain on the plasma screen (“Image retention”). This is not considered a malfunction and is not covered by the warranty.

To prevent “Image retention”, the screen saver is automatically activated after a few minutes if no signals are sent or no operations are performed. (p. 53)

Typical still images
- Channel number and other logos
- Image displayed in 4:3 mode
- SD Card photo
- Video game
- Computer image

■Setup

- Do not place the unit where it’s exposed to sunlight or other bright light (including reflections).
- Use of some types of fluorescent lighting may reduce the remote control’s transmission range.

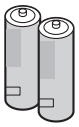
Accessories/Optional Accessory

☑ **Check you have all the items shown.**

Accessories

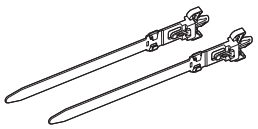
☐ Remote Control Transmitter
- N2QAYB000100

☐ Batteries for the Remote Control Transmitter (2)
- AA Battery

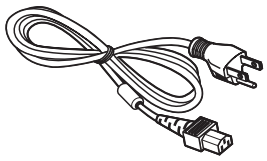


☐ Antenna Adapter
- F-Type for 5C-2V

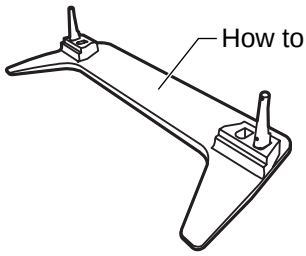
☐ Cable clamper (2)



☐ AC cord



☐ Pedestal
- TBL2AX00141 (TH-42PC77U)
- TBL2AX00151 (TH-50PC77U)



How to assemble (p.7)

☐ Operating Instructions

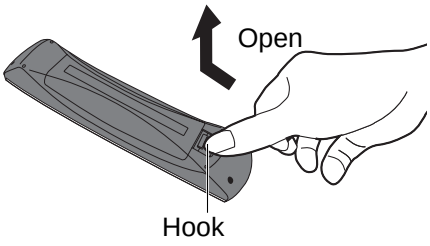
☐ Quick Setup Guide (For viewing HD programming)

☐ Product Registration Card (U.S.A.)

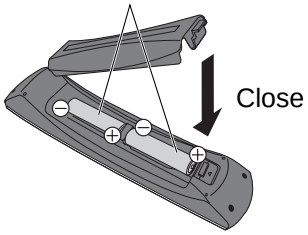
☐ Customer Care Plan Card (U.S.A.)

Installing the remote's batteries

1

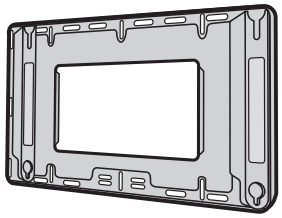


2 Note the correct polarity (+ or -).

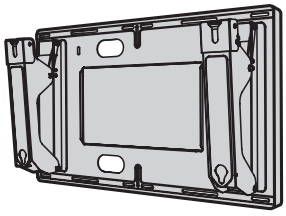


Caution
- Incorrect installation may cause battery leakage and corrosion, resulting in damage to the remote control.
  - Do not mix old and new batteries.
  - Do not mix different battery types (such as alkaline and manganese batteries).
  - Do not use rechargeable (Ni-Cd) batteries.
- Do not burn or break batteries.
- Make a note of the remote control codes before changing batteries in case the codes are reset. (p. 39)

Optional Accessory



Wall-hanging bracket
(vertical)
- TY-WK42PV3U



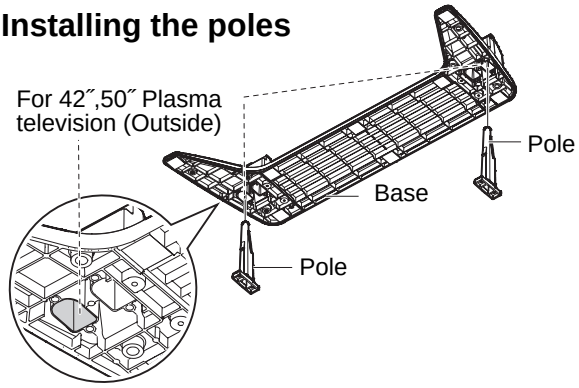
(angle)
- TY-WK42PR2U
- TY-WK42PR3U

Note
- In order to maintain the TV's performance and safety, be absolutely sure to ask your dealer or a licensed contractor to secure the wall-hanging brackets.
- Carefully read the instructions accompanying the plasma TV stand or pedestal, and be absolutely sure to take steps to prevent the TV from tipping over.
- Handle the TV carefully during installation since subjecting it to impact or other forces may cause its paneling to crack.

Attaching the pedestal to TV

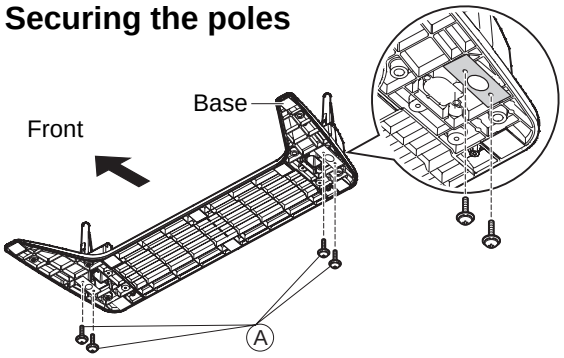
■Assembling the pedestal

Installing the poles



Insert the poles into the left and right holes in the underside of the base so that they fit securely as shown in the illustration above.

Securing the poles



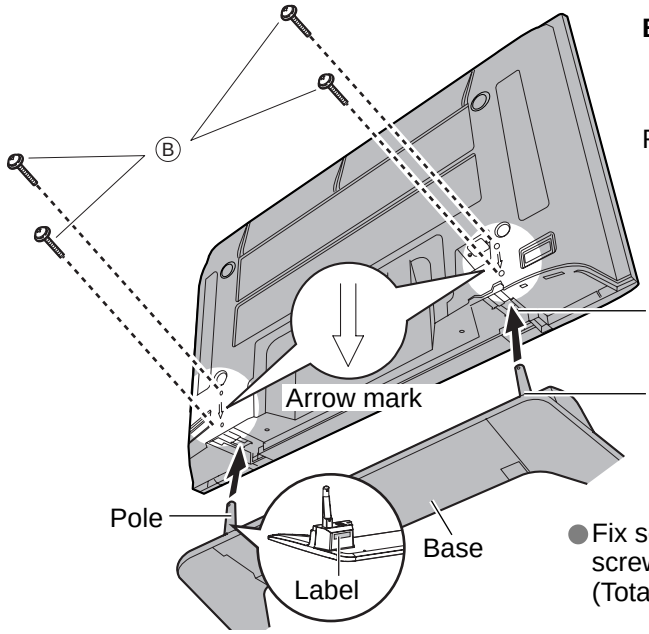
Use the assembly Ⓐ screws to secure the poles firmly to the bottom of the base.

Note

Forcing the assembly screws the wrong way will strip the threads.

■Set-up

●Carry out work on a horizontal and level surface.



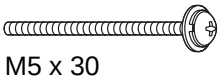
●Fix securely with assembly screws Ⓑ.
(Total 4 screws)

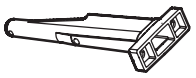
Accessories

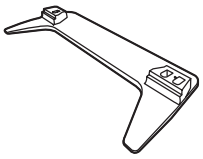
Assembly screw
(4 of each)

Ⓐ

M5 x 20

Ⓑ

M5 x 30

Pole (2)


Base (1)


Warning

Do not disassemble or modify the pedestal.

●Otherwise the TV may fall over and become damaged, and personal injury may result.

Caution

Do not use any television or displays other than those given in these Operating Instructions.

●Otherwise the TV may fall over and become damaged, and personal injury may result.

Do not use the pedestal if it becomes warped or physically damaged.

●If you use the pedestal while it is physically damaged, personal injury may result. Contact your nearest Panasonic Dealer immediately.

During set-up, make sure that all screws are securely tightened.

●If sufficient care is not taken to ensure screws are properly tightened during assembly, the pedestal will not be strong enough to support the TV, and it might fall over and become damaged, and personal injury may result.

Use the accessory fall-prevention brackets to secure the TV.

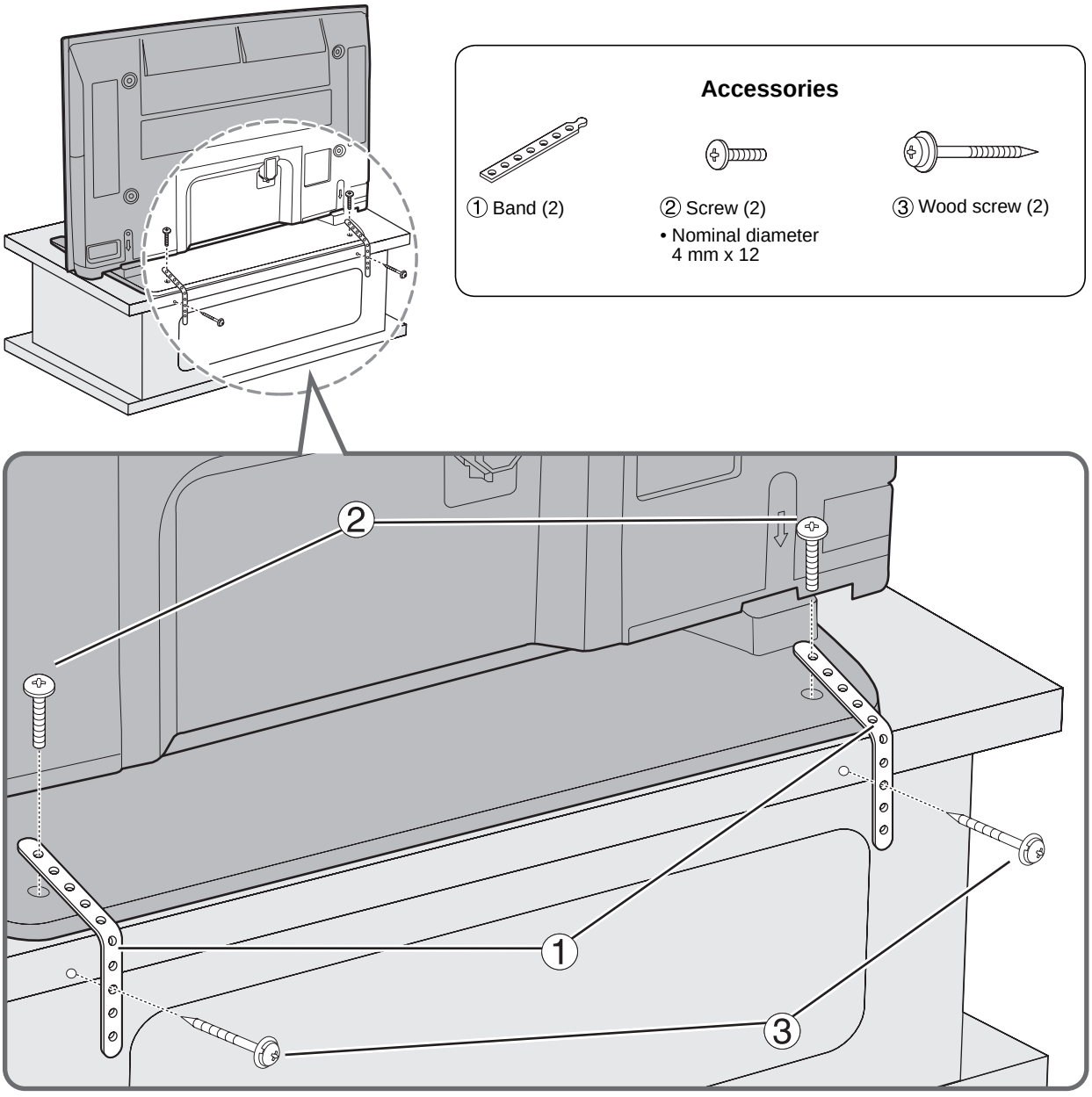
●If the TV is knocked or children climb onto the pedestal with the TV installed, the TV may fall over and personal injury may result.

To Prevent TV from Falling Over

● The TV must be fastened to both a base and a wall.

Securing to a base

● Fix pedestal and base together with band.



Accessories

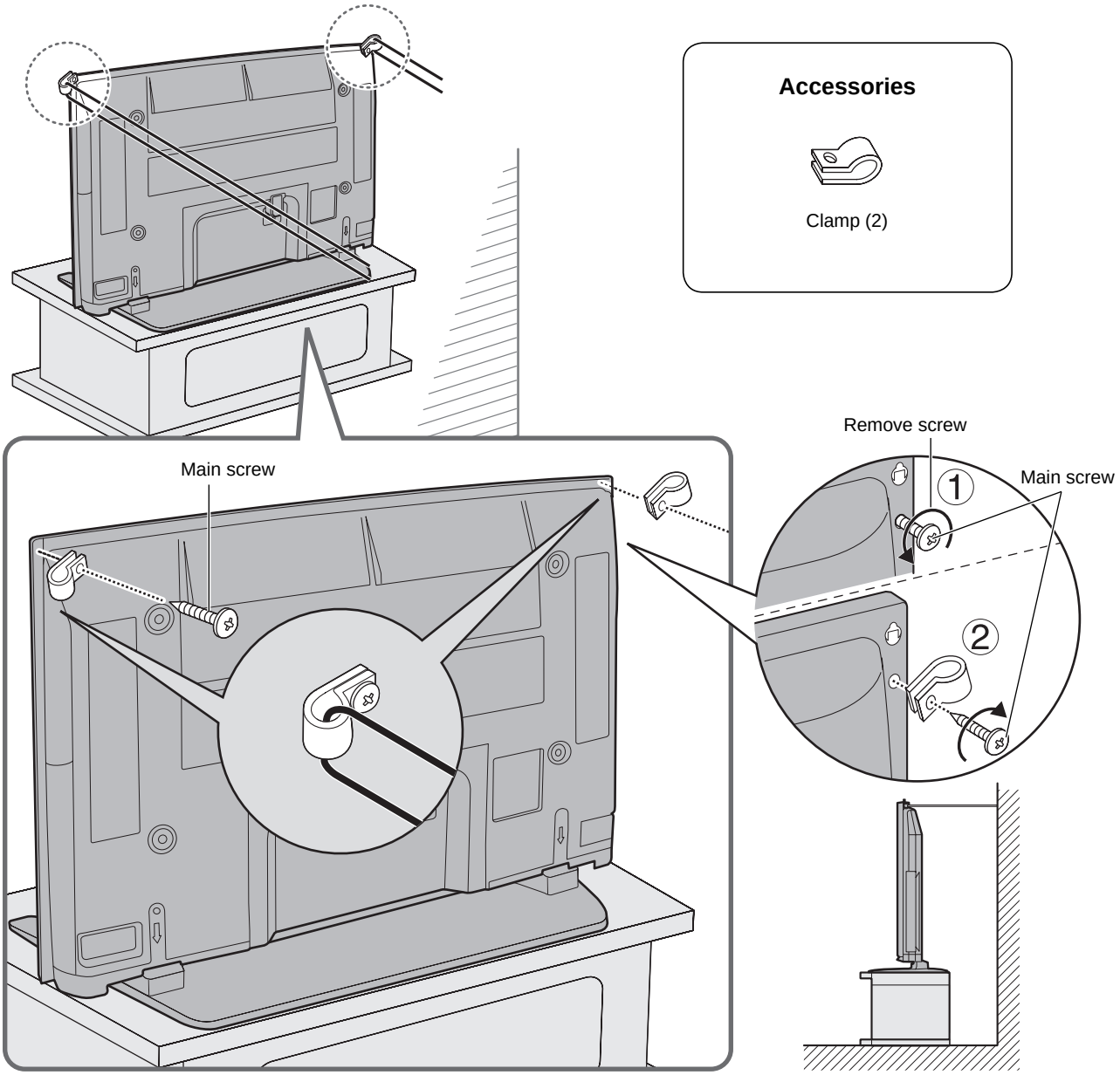
① Band (2)

② Screw (2)
• Nominal diameter
4 mm x 12

③ Wood screw (2)

Securing to a wall

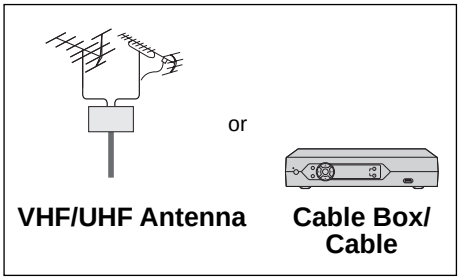
● Fix to wall or post with strong commercial wire or chain.



Before Connection

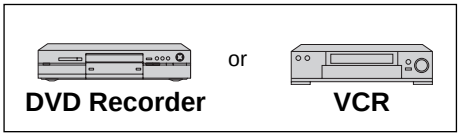
Connected Equipment Introduction (Signal source)

■Watching TV



- VHF/UHF Antenna
  - NTSC (National Television System Committee): Conventional broadcasting
  - ATSC (Advanced Television Systems Committee): Digital TV Standards include digital high-definition television (HDTV), standard-definition television (SDTV), data broadcasting, multi-channel surround-sound audio and interactive television.
- Cable Box/Cable
  - You need to subscribe to a cable TV service to enjoy viewing their programming.
  - You can enjoy high-definition programming by subscribing to a high-definition cable box. The connection can be done with the use of HDMI or Component Video cable.

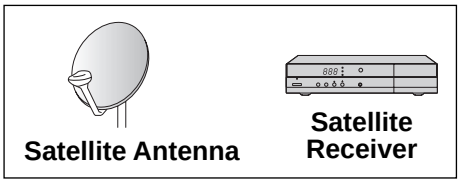
■Recording/playing back with DVD recorder or VCR



- DVD Recorder
  This source has higher resolution through interlace or progressive signal. Connection can be done with the use of Component Video or HDMI cable.
- VCR
  Connection can be done with the use of an RF cable and Composite Video/S Video cable.

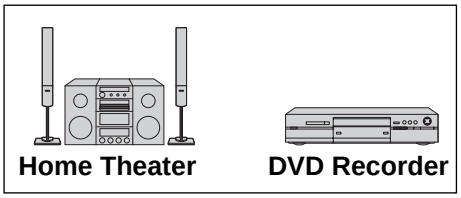
■Watching Satellite

- You can enjoy high-definition programming by subscribing to high-definition satellite source. Connection can be done with the use of HDMI or Component Video cable.



■Enjoying Home theater and DVD recorder with HDMI connection

- Home theater and DVD Recorder
  HDMI connection enables you to enjoy higher quality audio and video with a single cable.

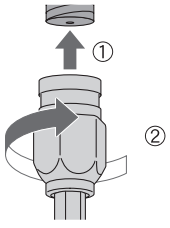


Note

- If your Panasonic DVD Recorder is compatible with EZ Sync (HDAVI control 2), you can operate your Panasonic DVD Recorder with this TV's remote control (p. 25 EZ Sync™).
- All cables and external equipment shown in this book are not supplied with the TV.
- For the details of the external equipment's connections, please refer to the operating manuals for the equipment.

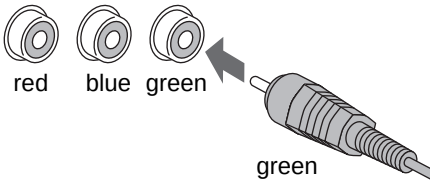
Reference of connection

■Antenna terminal



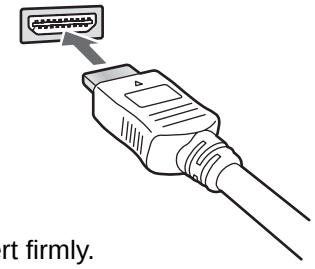
- Firmly tighten by hand.

■Pin terminals



- Match colors of plugs and terminals.
- Insert firmly.

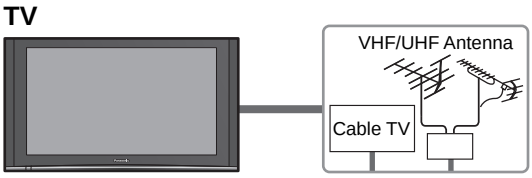
■HDMI terminal



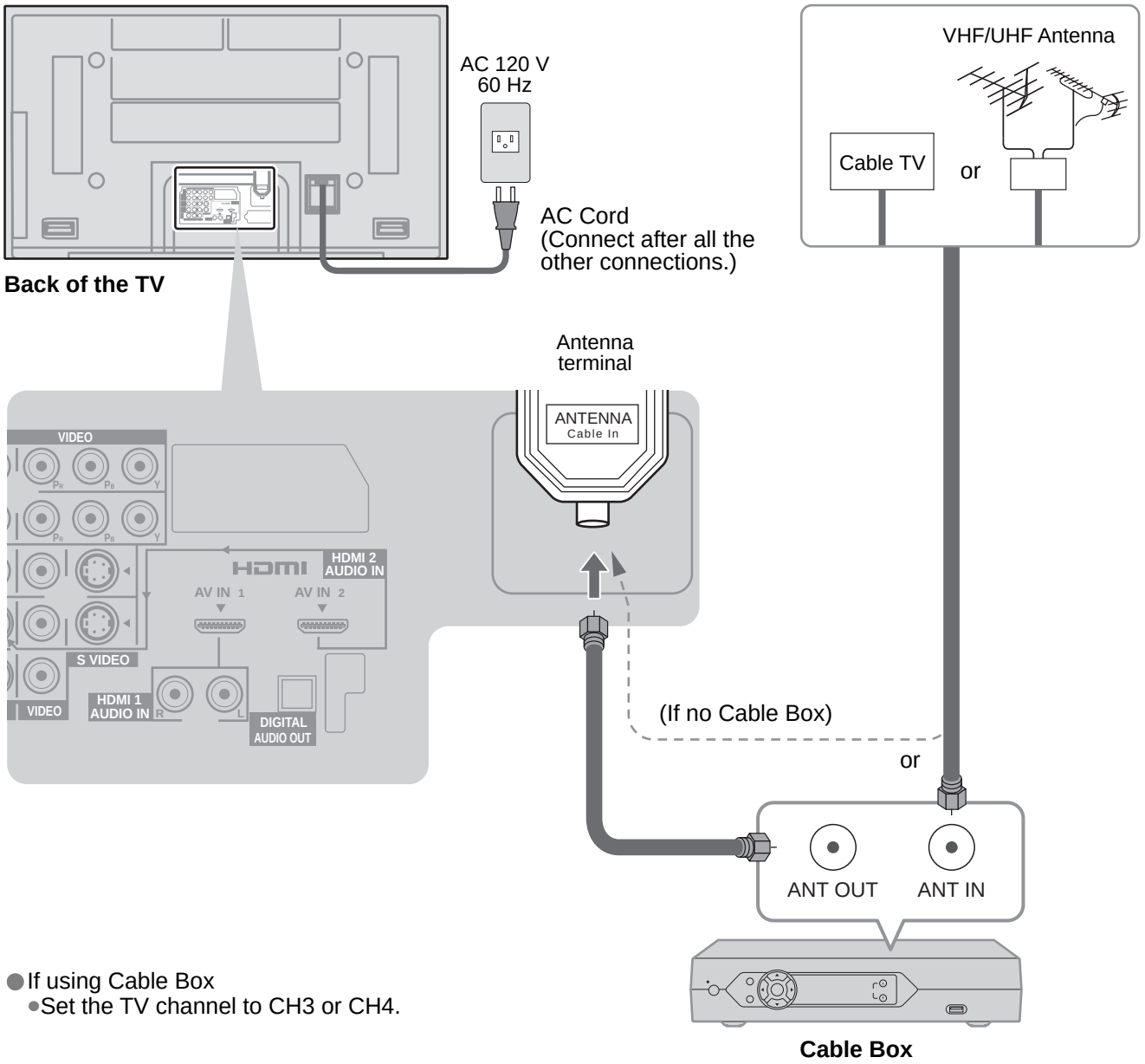
- Insert firmly.

Basic Connection

Example 1 Connecting Antenna (To watch TV)



To connect antenna terminals



- If using Cable Box
  - Set the TV channel to CH3 or CH4.

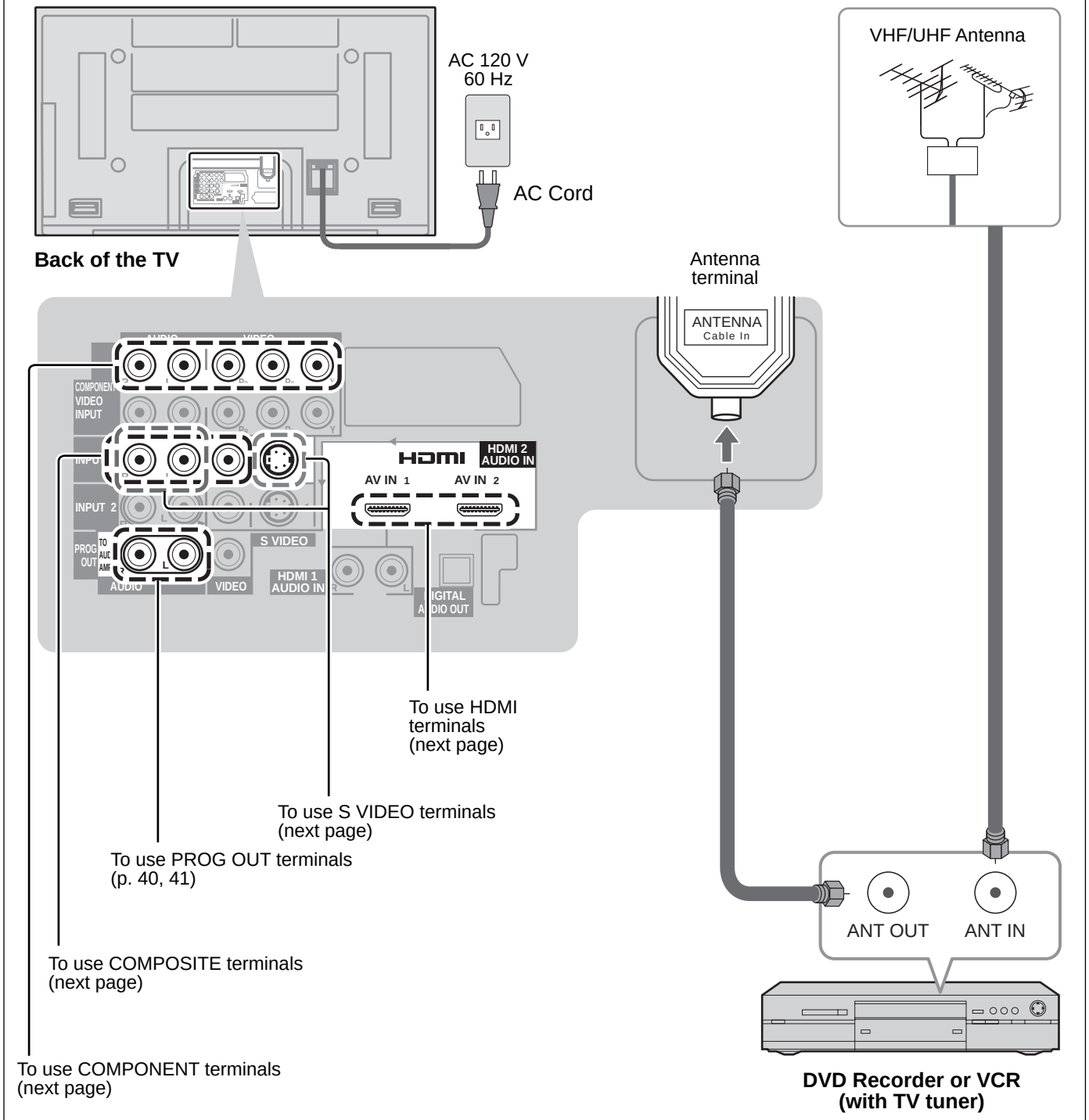
Note

- When disconnecting the power cord, be absolutely sure to disconnect the power cord plug from the wall outlet first.
- For additional assistance, visit us at: www.panasonic.com
  www.panasonic.ca

Basic Connection (Continued)

Example 2 Connecting DVD recorder (VCR) (To record/playback)

To connect antenna terminals

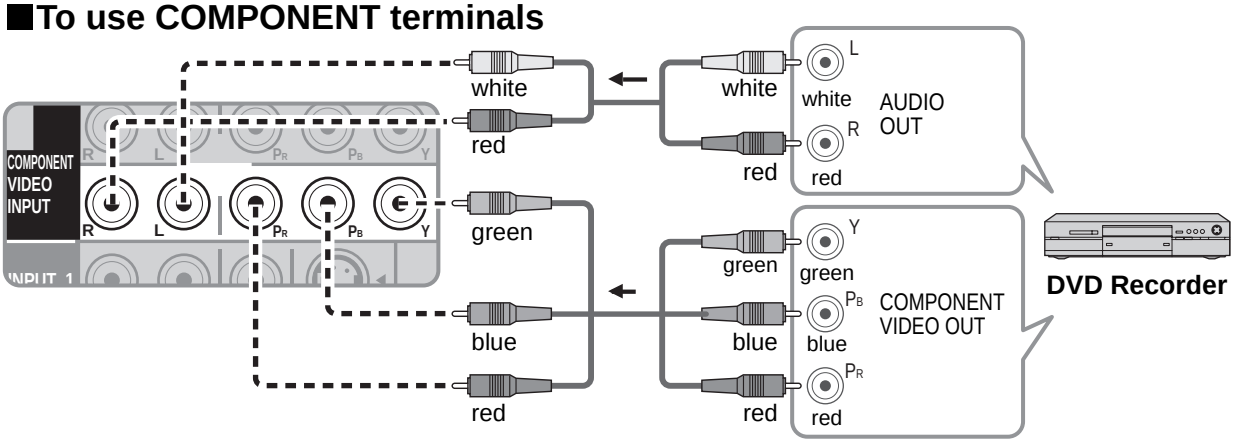


High-Definition

■To use HDMI terminals

●Connecting to HDMI terminals will enable you to enjoy high-definition digital images and high-quality sound.

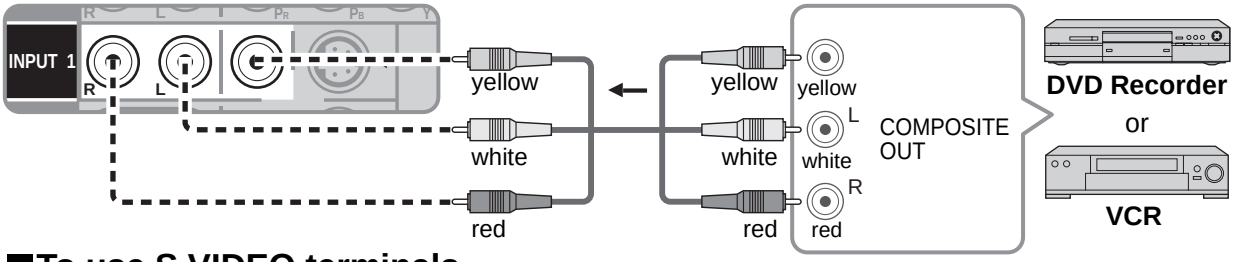
■To use COMPONENT terminals



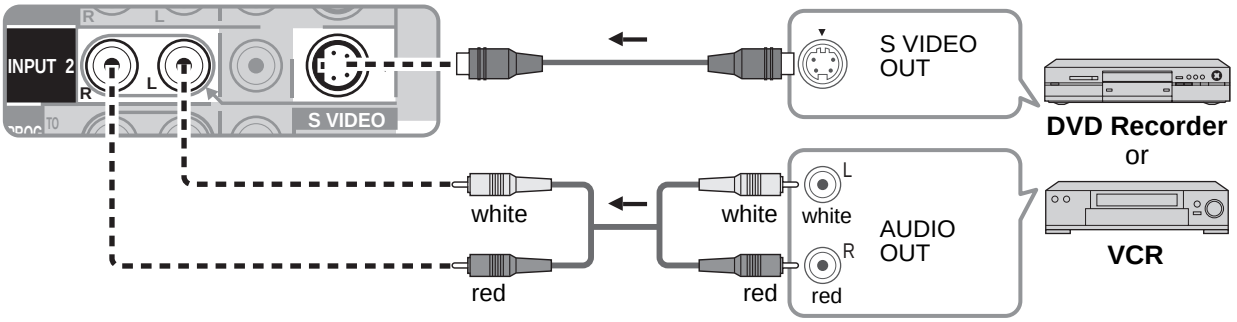
●Recorders may also be connected to COMPOSITE or S VIDEO terminals. (see below)

Standard-Definition

■ To use COMPOSITE terminals



■To use S VIDEO terminals



●The S Video input will override the composite video signal when S Video cable is connected. Connect either S Video or Video cable.

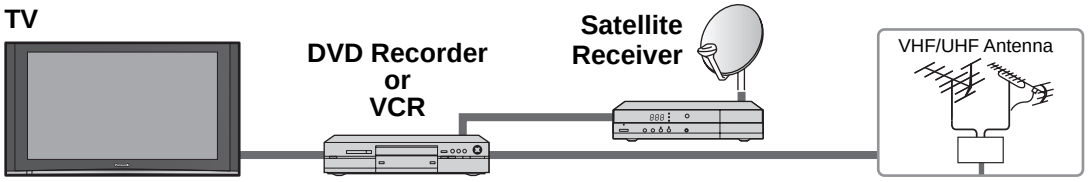
●Connecting to S VIDEO terminals will enable you to enjoy greater picture quality than using Composite terminals.

Note

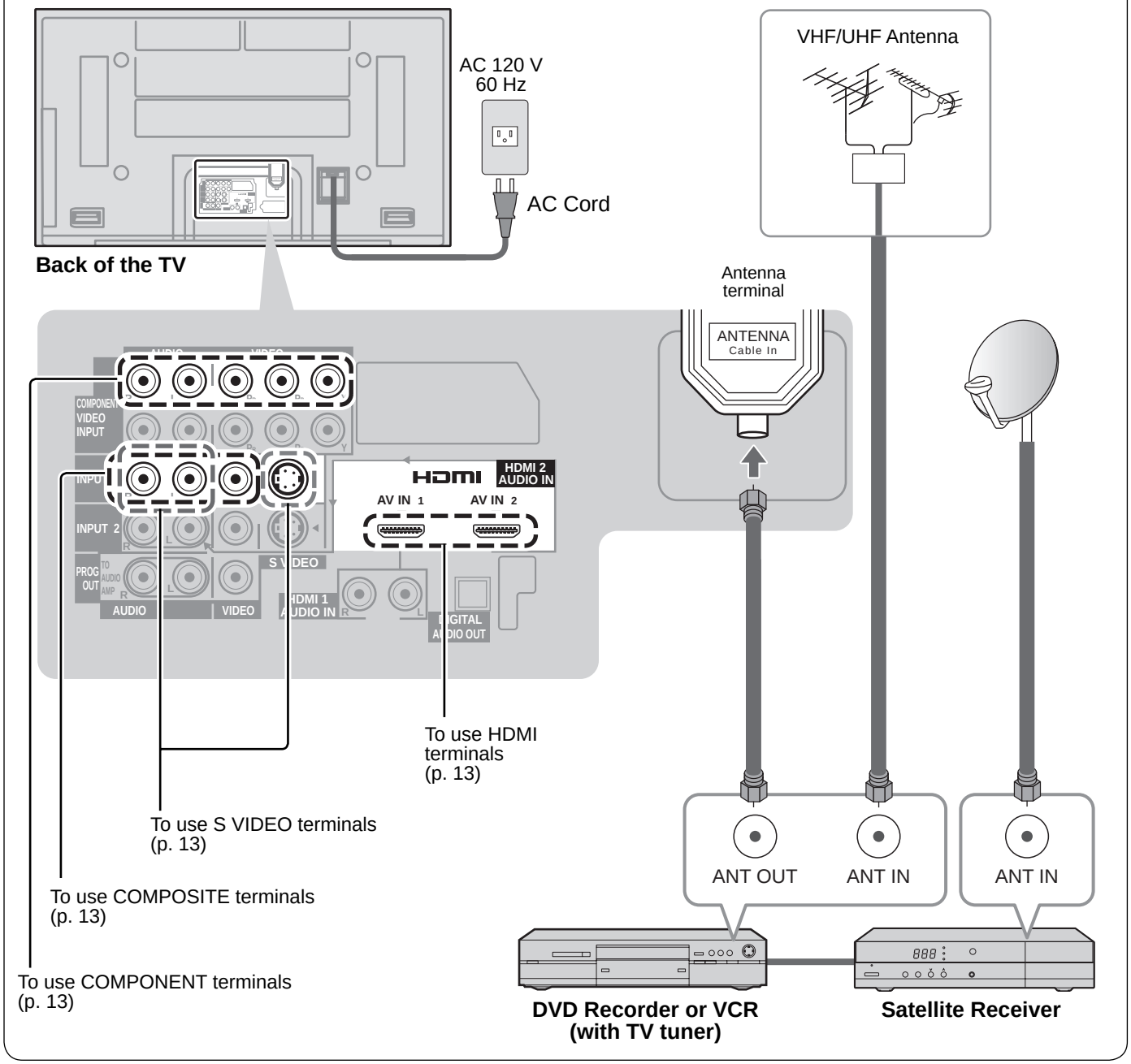
●Some programs contain a copyright protection signal to prevent recording.
●When the copyright protection program is displayed, do not connect the other TV monitor through a VCR. Video signals fed through VCRs may be affected by copyright protection systems and the picture will be distorted on the other TV monitor.

Basic Connection (Continued)

Example 3 Connecting DVD recorder (VCR) and satellite receiver



To connect antenna terminals

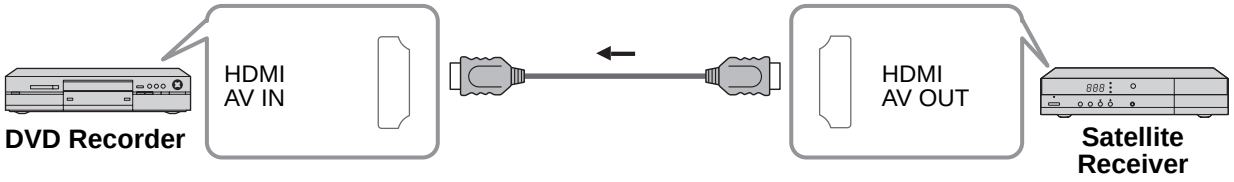


Connecting TV and DVD recorder (VCR)

Connect in the same way as on p. 13.

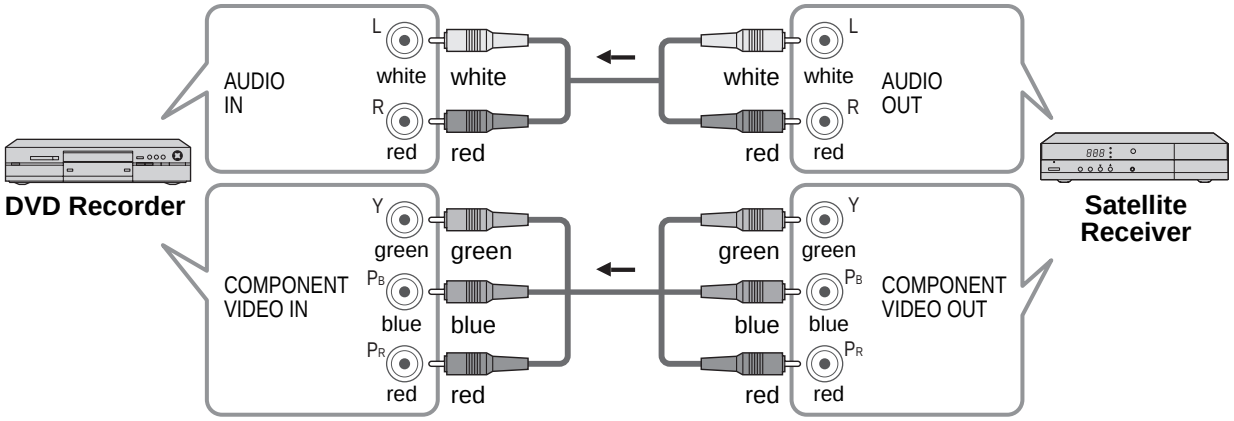
To connect DVD recorder and satellite receiver

■To use HDMI terminals



● Connecting to HDMI terminals will enable you to enjoy high-definition digital images and high-quality sound.

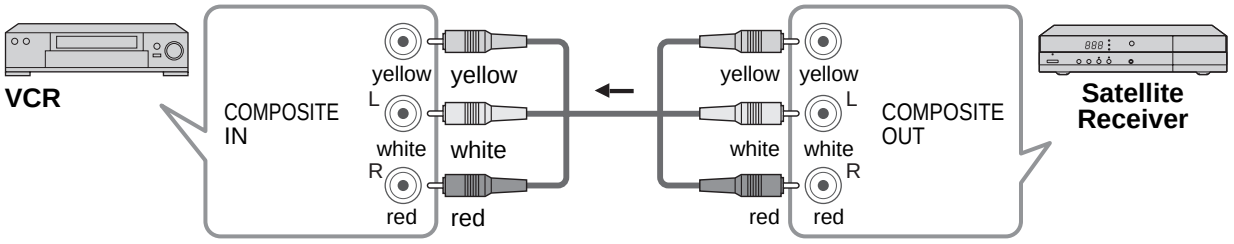
■To use COMPONENT terminals



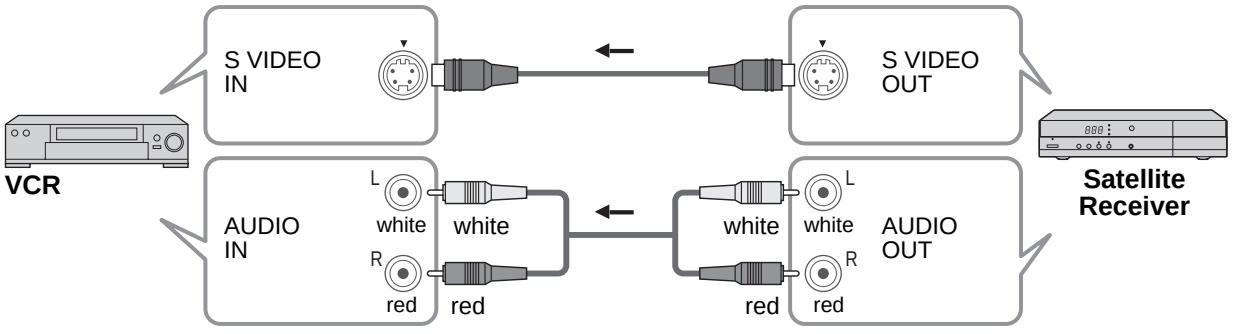
● Satellite Receiver may also be connected to COMPOSITE or S VIDEO terminals. (see below)

To connect VCR and satellite receiver

■To use COMPOSITE terminals



■To use S VIDEO terminals

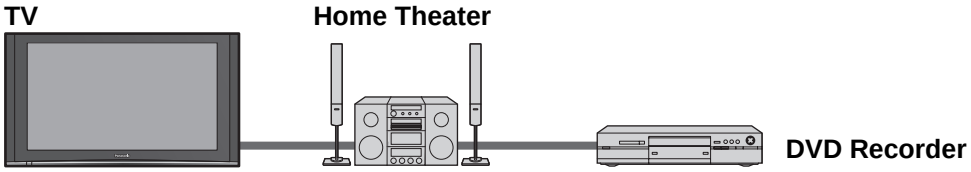


● The S Video input will override the composite video signal when S Video cable is connected. Connect either S Video or Video cable.

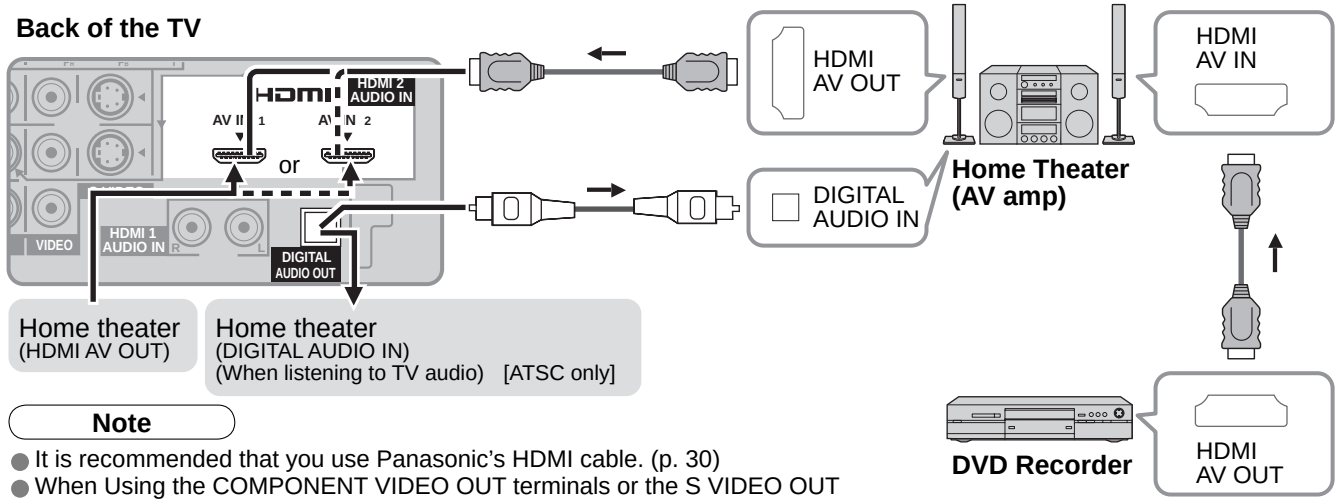
● Connecting to S VIDEO terminals will enable you to enjoy greater picture quality than using Composite terminals.

Basic Connection (Continued)

Example 4 Connecting Home Theater and DVD recorder



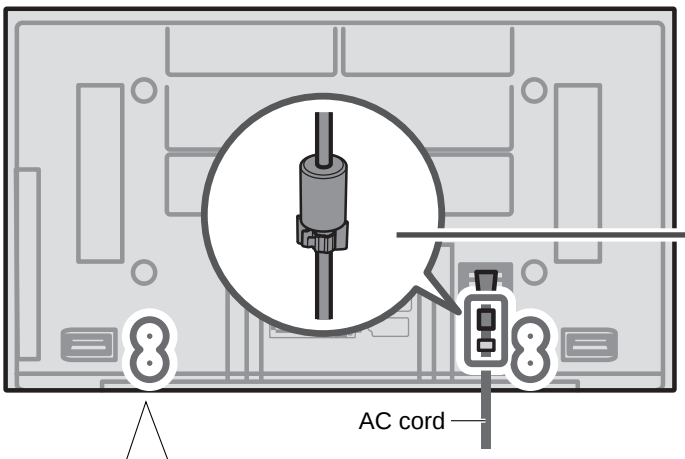
To connect HDMI terminals



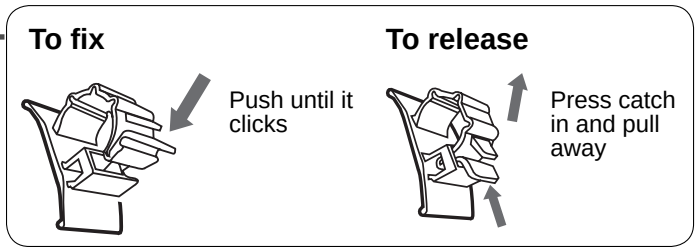
Note

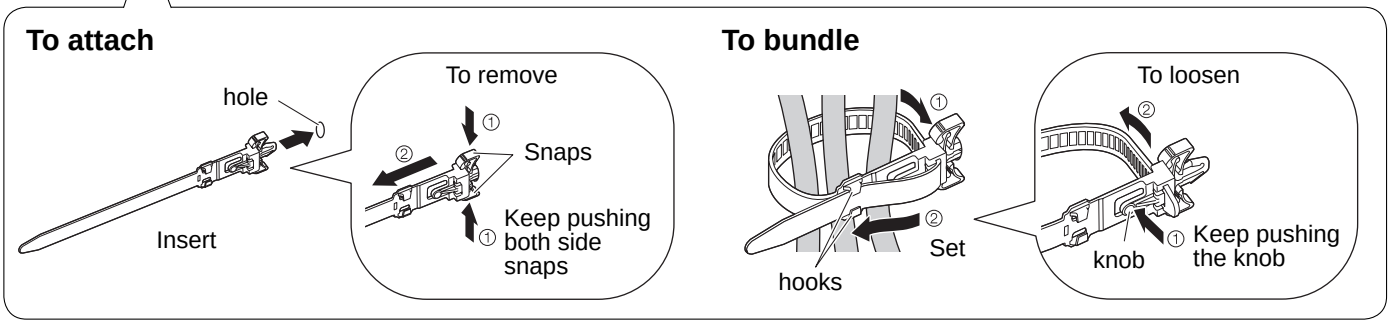
- It is recommended that you use Panasonic's HDMI cable. (p. 30)
- When Using the COMPONENT VIDEO OUT terminals or the S VIDEO OUT terminal, refer to p. 15 "To use COMPONENT terminals" or "To use S VIDEO terminals".
- If you connect RAM theater or Player theater with HDMI cable, use audio cable instead of the optical digital audio cable. (p. 41)

Cable Binding Instructions



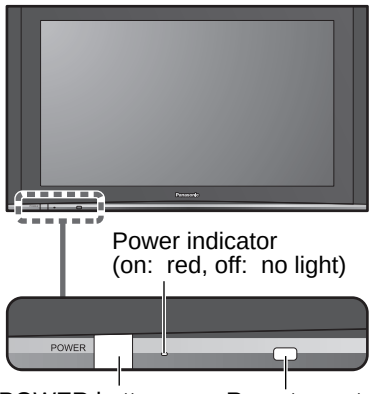
- Do not bundle the RF cable and AC cord together (could cause distorted image).
- Fix cables with Cable clamper as necessary.
- When using the options, follow the option's assembly manual to fix cables.





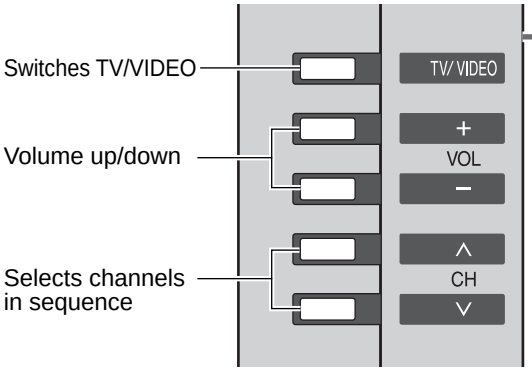
Identifying Controls

Front of the TV

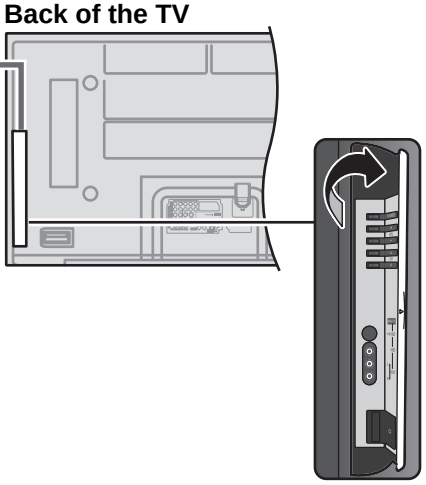


POWER button

Remote control sensor
Within about 23 feet (7 meters) in front of the TV set.

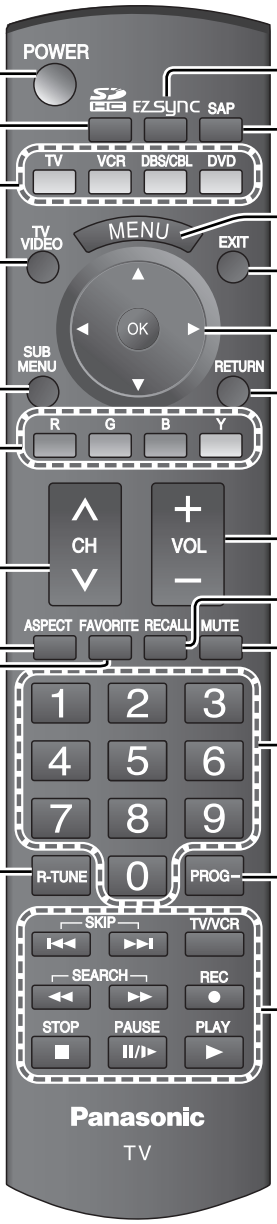


Back of the TV



Note

- The TV consumes a limited amount of power as long as the power cord is inserted into the wall outlet.



Switches TV to On or Standby

Viewing from SD Card (p. 22-23)

The equipment selection button (p. 24)

Changes the input mode (p. 24)

Displays Sub Menu (p. 20, 28)

Colored buttons
(used for various functions)
(for example p. 22, 34)

Channel up/down

Changes aspect ratio (p. 21)

Operates the Favorite channel list function. (p. 21)

Switches to previously viewed channel and input modes.

EZ Sync menu (p. 25, 30-31)

Selects Audio Mode for TV viewing (p. 20)

Displays Main Menu (p. 26)

Exits menus

Selects/OK/Change

Returns to previous menu

Volume up/down

Displays or removes the channel banner (p. 20)

Sound mute On/Off

Numeric keypad to select any channel (p. 20) or press to enter alphanumeric input in menus. (p. 24, 25, 32, 34, 39)

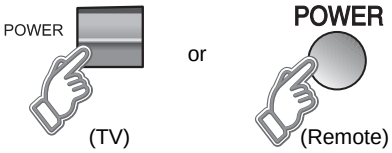
Direct channel access for DTV and DBS (p. 20)

External equipment operations (VCRs, DVDs, etc.) (p. 24)

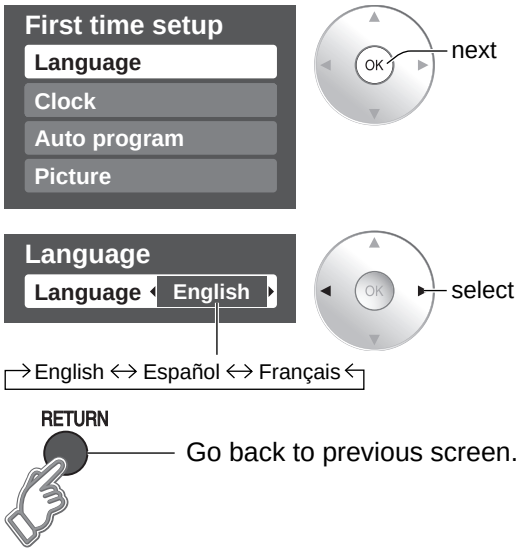
First Time Setup

"First time setup" is displayed only when the TV is turned on for the first time after the power cord is inserted into a wall outlet and when "Auto power on" (p. 28-29) is set to "No".

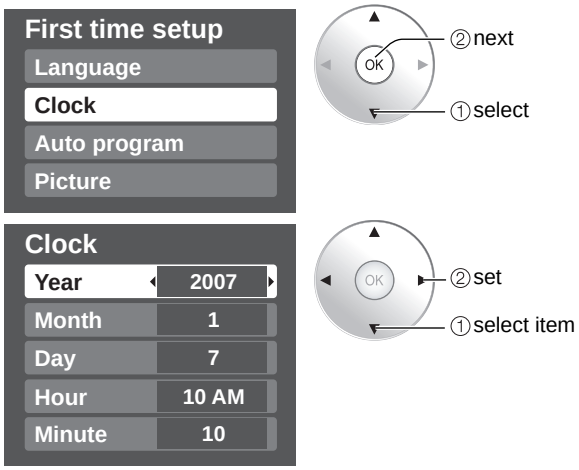
1 Turn the TV On with the POWER button



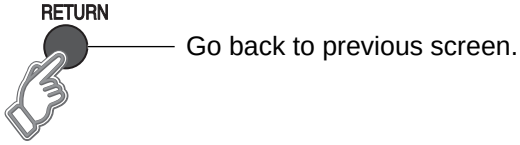
2 Select your language



3 Adjust the clock



Year: Select the year
Month: Select the month
Day: Select the day
Hour: Adjust the hour
Minute: Adjust the minute



■ Press to exit from menu screen

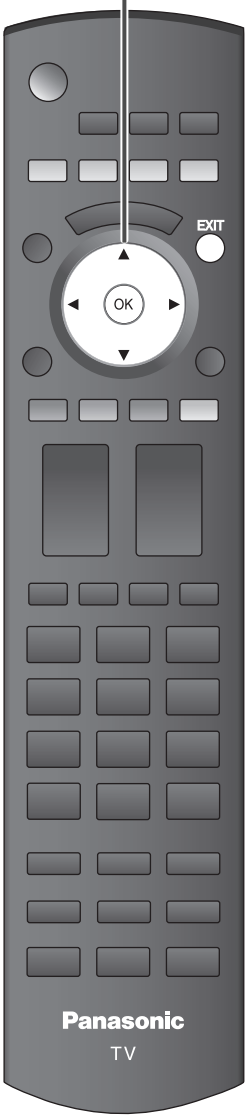
EXIT

■ Press to return to previous screen

RETURN

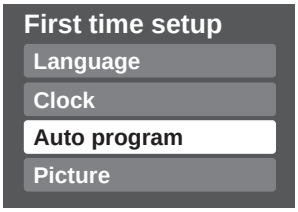
Note

- To change setting (Language/Clock/Auto program/Picture) later, go to Menu screen (p. 26, 28)

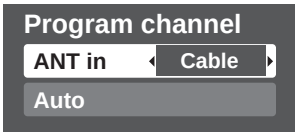


4 Auto channel setup

①Select “Auto program”



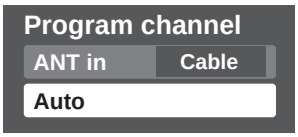
②Select “ANT in”



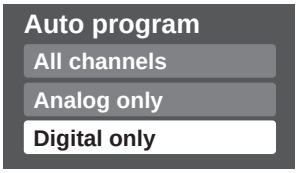
ANT in

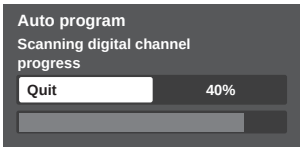
Cable: Cable TV
Antenna: Antenna

③Select “Auto”



④Select scanning mode (ALL channels/Analog only/Digital only)



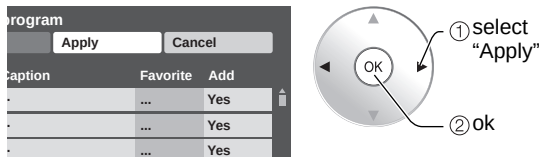


Start scanning the channels

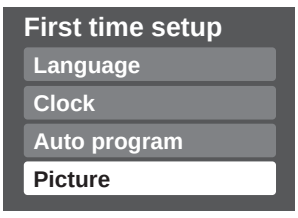
- Available channels (analog/digital) are automatically set.

All channels: Scans digital and analog channels
Analog only: Scans Analog channels only
Digital only: Scans Digital channels only

⑤Confirm registered channels



- If OK is not pressed after selecting “Apply”, the channels will not be saved.
- If you perform scanning more than twice, previously saved channels are erased.



(Refer to p. 26)

■Press to exit from menu screen

EXIT

Note

- About broadcasting systems

Analog (NTSC): traditional TV programming
Digital (ATSC): new programming that allows you to view more channels featuring high-quality video and sound

Watching TV

Connect the TV to a cable box/cable, set-top-box, satellite box, or antenna cable (p. 10-15)

1 Turn power on

POWER

Note

- If the mode is not TV, press TV VIDEO and select TV. (p. 24)

2 Select a channel number

or

■ To directly input the digital channel number

PROG– When tuning to a digital channel, press the button to enter the minor number in a compound channel number.

example: CH15-1: 1 5 PROG– 1

■ Other Useful Functions (Operate after 2)

Listen with SAP (Secondary Audio Program)

■ Selects Audio Mode for watching TV

SAP

- **Digital mode**
  Press SAP to select the next audio track (if available) when receiving a digital channel.

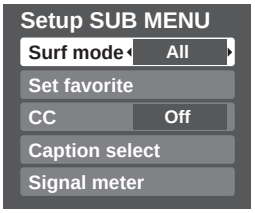
- **Analog mode**
  Press SAP to select the desired audio mode.
  • Each press of SAP will change the audio mode. (Stereo/SAP/Mono)

Display the SUB MENU

■ Press SUB MENU to show sub menu screen. (p. 28)

This menu consists of shortcuts to convenient functions.

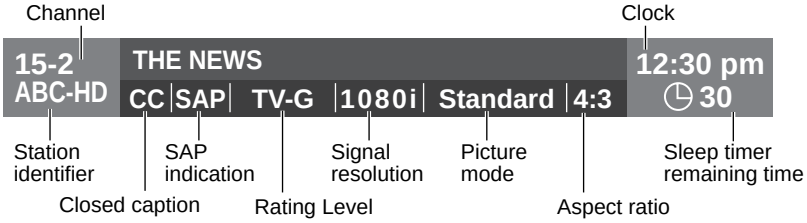
SUB MENU



Information Recall

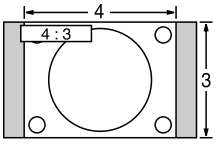
■ Displays or removes the channel banner.

RECALL



Change aspect ratio

■ **Press ASPECT to cycle through the aspect modes.** (p. 47)



- 480i, 480p: FULL/JUST/4:3/ZOOM
- 1080p, 1080i, 720p: FULL/H-FILL/JUST/4:3/ZOOM

Call up a favorite channel

■ **FAVORITE**

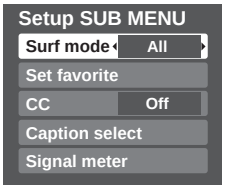
Channel numbers registered in Favorite are displayed on the favorite tune screen. Select the desired broadcast station with the cursor or use number buttons. (see below)

Note

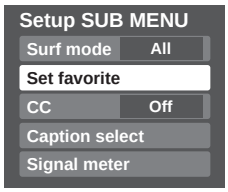
- Reselect “Cable” or “Antenna” in “ANT in” of “Program channel” to switch the signal reception between cable TV and antenna. (p. 19, 35)
- The channel number and volume level remain the same even after the TV is turned off.

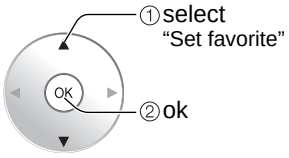
Set Favorite Feature

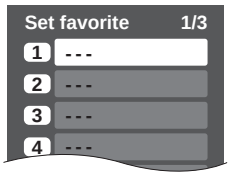
1 Display the SUB MENU.



2

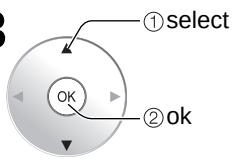






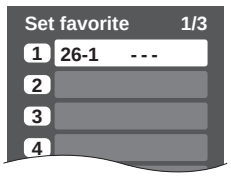
- Press FAVORITE repeatedly to change between pages (1/3, 2/3, 3/3, or exit).

3



Press ▲▼to highlight a position on the list.
Then, press OK to save the displayed channel in that position.

- You can also use the NUMBER buttons (1-9 and 0) to select a list number (1-9 and 0). By doing so, the displayed channel will be saved on that list number without pressing OK.



● **To delete a favorite channel**

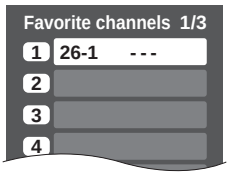
A saved channel can be removed from the list by holding down OK while its position is highlighted.

Use Favorite Feature

1

Press FAVORITE.

- Press FAVORITE repeatedly to change between pages (1/3, 2/3, 3/3, or exit).

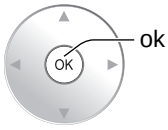


2

Press ▲▼ or a Numbered key (1-9 and 0) to highlight a channel on the list.

- Selecting a channel number from the list with the number button will display the channel directly.

3



Press OK to display the highlighted channel.

● **To change the page**

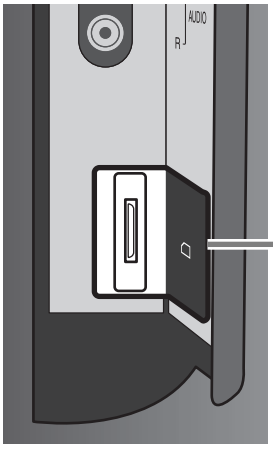
Pressing ◄ changes the page backward. Pressing ► changes the page forward.

Viewing from SD Card

You can view photos taken with a digital camera or digital video camera and saved on an SD card. (Media other than SD Cards may not be reproduced properly.)

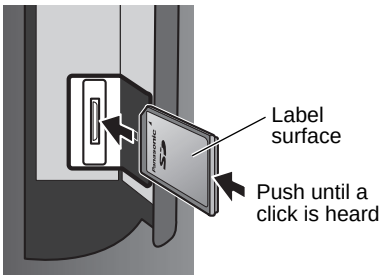
1 Insert the SD Card

● For cautions and details on SD Cards (p. 48)

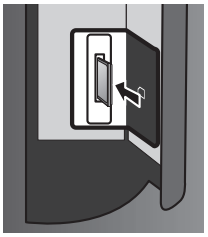


SD Card

● Insert the card



● Remove the card
➡ Press in lightly on SD Card, then release.



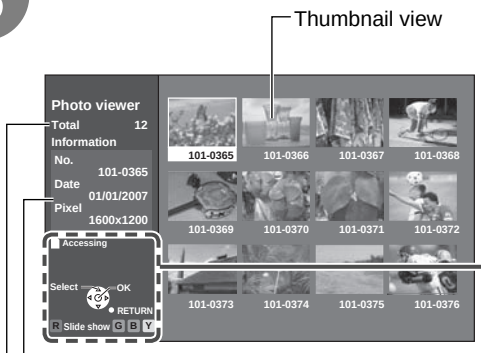
● Compliant card type (maximum capacity): SDHC Card (4 GB), SD Card (2 GB), miniSD Card (1 GB) (requiring miniSD Card adapter)

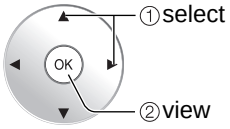
2 Select the SD mode

or

Display menu
➡ **Select “Memory card”**

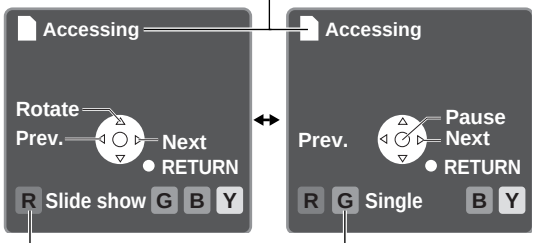
3 Select the data to be viewed





Navigation area

Present status (While reading the data)



R
(to Slide show)

G
(to Single photo display)

Selected picture information is displayed.
No.: Image number or file name is displayed.
Date: Date of recording is displayed.
Pixel: Display resolution is displayed.

Total number of images

Note

● Depending on the JPEG format, “Information” contents may not be displayed correctly. Refer to p. 48 (Data format for SD card browsing) for details.

■ **Press to return to TV**

■ **Press to exit from menu screen**

EXIT

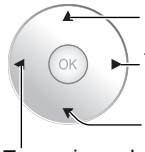
■ **Press to return to the previous screen**

RETURN

4 View

Displays one at a time

Navigation area



Rotate 90 degrees (counter-clockwise)

To next photo

Rotate 90 degrees (clockwise)

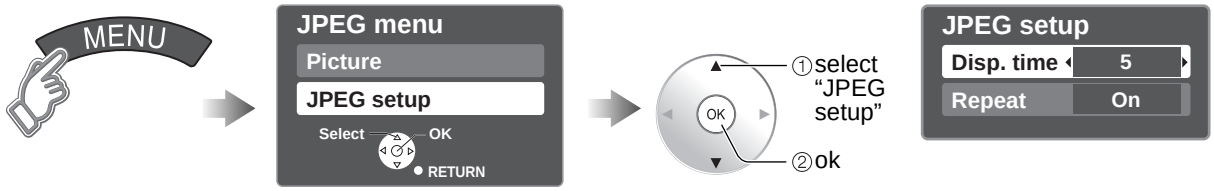
To previous photo

● To display/hide Navigation area ➡ RECALL

To change the view (Slide show mode, adjusting images, etc.)

■ To watch photos in Slide show mode

In ❸ or ❹



Disp. time	You can set how many seconds each image is displayed in Slide show mode. (1-10/15/20/30/45/60/120 sec)
Repeat	Turn the Slide show Repeat function On or Off.

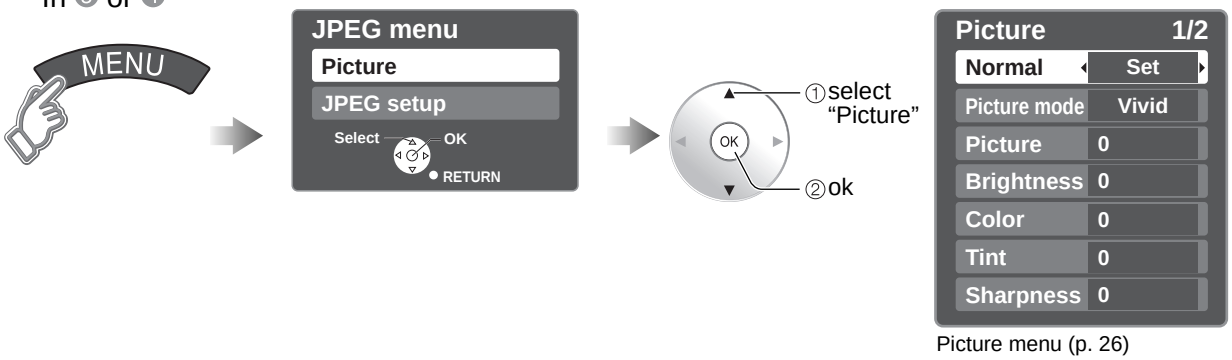
Note

- For large image sizes, the display time will be longer than the number of seconds set.
- To stop in mid-cycle ➡ Press RETURN

■ To adjust picture

When MENU is pressed, the "JPEG menu" is displayed.

In ❸ or ❹



Picture menu (p. 26)

Viewing from a GalleryPlayer SD Card

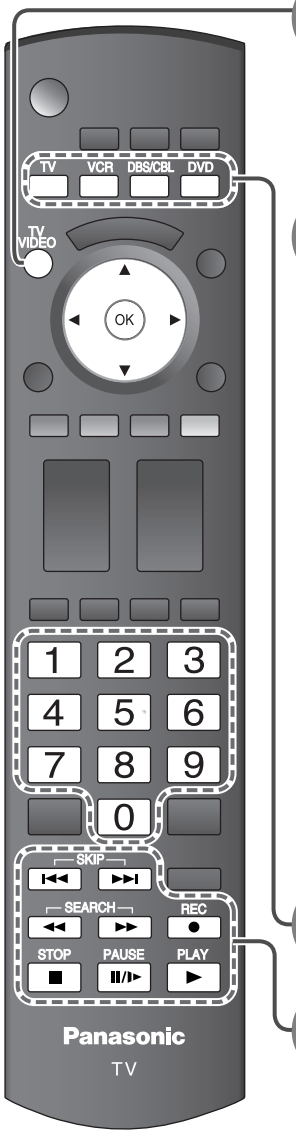
You can view high-definition art and photography purchased on or downloaded to an SD card. GalleryPlayer provides pre-loaded SD cards with copy-protected imagery and images for download to your computer that can be saved on an SD card for display on your television.

Watching Videos and DVDs

If you have some equipment connected to the TV, you can easily watch videos and DVDs using the TV's remote control.

Input Select

You can select the external equipment to access.
To operate other manufacturers' equipment, you need to register the code of the equipment. (p. 39)

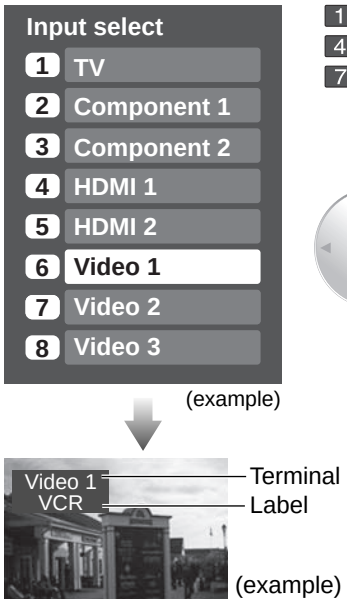


1 With the connected equipment turned On

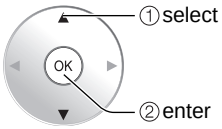
Display the Input select menu

2

Select the input mode



or



Press corresponding NUMBER button on the remote control to select the input of your choice.

Select the input of your choice, then press OK.

- During the selection, if no action is taken for several seconds, the "Input select" menu disappears.
- The terminal and label of the connected equipment is indicated.
  To label each of the inputs please refer to p. 36-37.

3

Select the remote control mode

Press the key to select

4

Operate the connected equipment, pointing remote control at the equipment.

(example)

	VCR MODE	DVD MODE
REC ●	VCR Record	Record
SKIP ⏮ ⏭	–	Skip Reverse/Forward
SEARCH ◀◀ ▶▶	Rewind/Fast Forward	Reverse/Forward
STOP ■	Stop	Stop
PAUSE ⏸/▶	Pause	Pause
PLAY ▶	Play	Play

(For other operations, see p. 42)

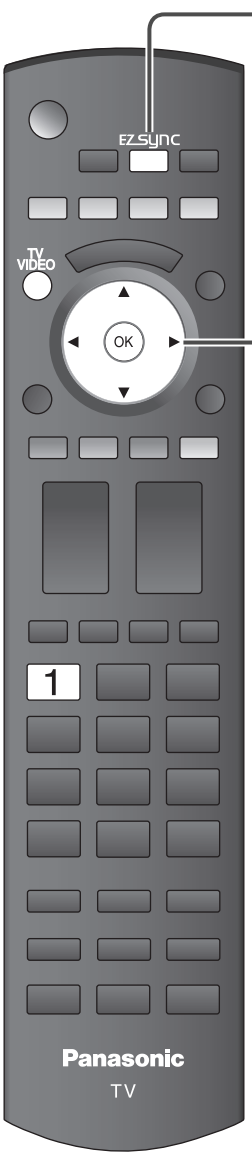
■ To return to TV

Note

- For details, see the manual of the equipment.

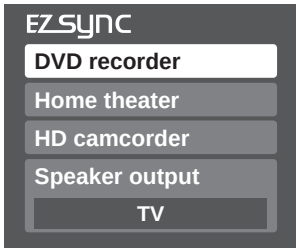
EZ Sync™

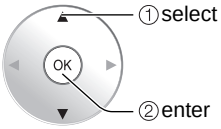
If you connect equipment that has “HDAVI Control 2” function to a TV with HDMI cable, you can enjoy using more convenient functions. For details, refer to “EZ Sync Control” on p. 30-31.



1 Display EZ Sync menu

2 Select the equipment





3 Operate

You can operate the selected equipment with the TV’s remote control.

Follow the menu of the equipment and enjoy watching.

For the remote control operations, refer to p. 31.

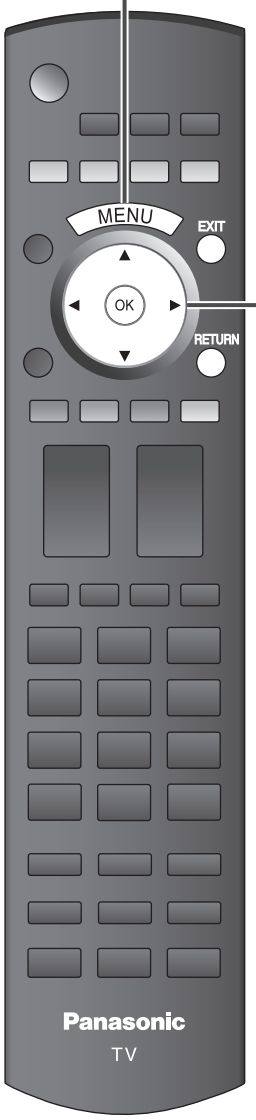
Note

- For details, see the manual for the equipment or ask your local dealer.

■ To return to TV

How to Use Menu Functions

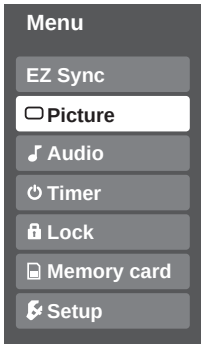
Various menus allow you to make settings for the picture, sound, and other functions so that you can enjoy watching TV in your own way.

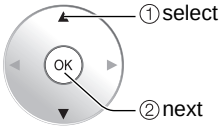


1 Display menu

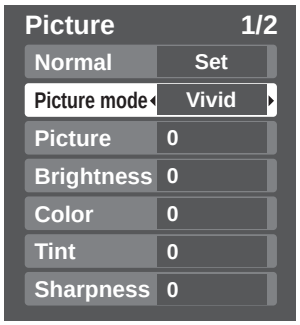
- Displays the functions that can be set (varies according to the input signal)

2 Select the menu

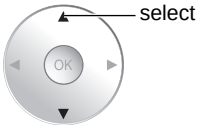




3 Select the item



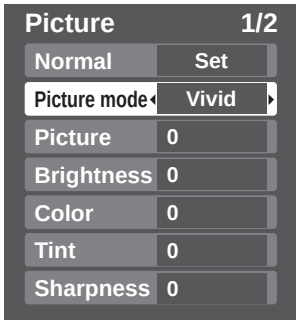
(example: Picture menu)



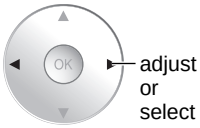
■ **Press to exit from menu screen**

EXIT

4 Adjust or select



(example: Picture menu)



■ **Press to return to the previous screen**

RETURN

■ **Menu list**

Menu	Item		
EZ Sync	DVD recorder, Home theater, HD camcorder, Speaker output		
Picture	Normal		
	Picture mode		
	Picture, Brightness, Color, Tint, Sharpness		
	Color temp.		
	Color mgmt.		
	Zoom adjust		
	Other adjust	Video NR	
		3D Y/C filter	
		Color matrix	
		MPEG NR	
		Black level	
Audio	Normal		
	Bass		
	Treble		
	Balance		
	Other adjust	AI sound	
		Surround	
		Speaker output	
		HDMI 1 in HDMI 2 in	
		Audio leveler	
Timer	Sleep, Timer 1-5		
Lock			
Memory Card	Memory card		

Adjustments/Configurations (alternatives)

[DVD recorder/Home theater/HD camcorder]
Select equipment to access and operate. (p. 30)
[Speaker output]
Select audio output. **(Home theater/TV)** (p. 30)
- EZ Sync menu is accessible directly by pressing the EZ Sync button on the remote control. ➡ EZ SYNC (p. 25)

Resets all picture adjustments to factory default settings except for “Other adjust” **(Set/No)**	Normal: Set
Basic picture mode **(Vivid/Standard/Cinema/Custom)** (p. 49)	Picture mode: Vivid
Adjusts color, brightness, etc. for each picture mode to suit your taste	Picture: +20; Tint: 0; Brightness: 0; Sharpness: 0; Color: 0
Selects level of warm colors (red) and cool colors (blue) **(Cool/Normal/Warm)**	Color temp.: Cool
On: Enhances green and blue color reproduction, especially outdoor scenes. **(On/Off)**	Color mgmt.: On
Adjusts vertical alignment and size when aspect setting is “ZOOM” (p. 47)	Zoom adjust
Reduces noise, commonly called snow. Leave it off when receiving a strong signal. **(Off/On)**	Video NR: Off
Minimizes noise and cross-color in the picture. **(On/Off)**	3D Y/C filter: Off
Selects image resolution of component-connected devices **(HD/SD)** - SD: Standard Definition HD: High Definition - Only 480p signal accepted; regular TV (NTSC) is not available.	Color matrix: SD
Reduces noise of specific digital signals of DVD, STB, etc. **(On/Off)**	MPEG NR: Off
Selects Dark or Light. Valid only for external input signals. **(Dark/Light)**	Black level: Light
Resets Bass, Treble and Balance adjustments to factory default settings. **(Set/No)**	Normal: Set
Increases or decreases the bass response.	Bass: + 4
Increases or decreases the treble response.	Treble: 0
Emphasizes the left / right speaker volume.	Balance: 0
Equalizes overall volume levels across all channels and external inputs. **(On/Off)**	AI sound: On
Enhances audio response when listening to stereo. **(On/Off)**	Surround: Off
Switches to “Off” when using external speakers **(On/Off)** - “AI sound”, “Surround”, and “Audio leveler” do not work if “Off” is selected	Speaker output: On
Selects according to the signal when HDMI is connected **(Auto/Digital/Analog)** - Auto: Automatically selects Analog / Digital signal	HDMI1 in: Auto; HDMI2 in: Auto
Minimizes volume disparity after switching to external inputs	Audio leveler: 0
The TV can automatically turn On/Off at the designated date and time (p. 38)	Sleep: 60
Locks the channels and programs (p. 32)	
Displays SD card data (p. 22)	Memory card

- In AV mode, the Audio menu and Setup menu give fewer options.

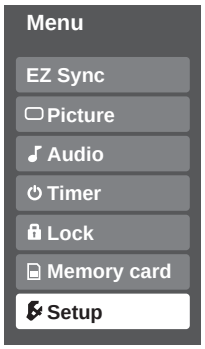
How to Use Menu Functions

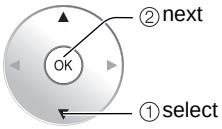
Various menus allow you to make settings for the picture, sound, and other functions so that you can enjoy watching TV in the way best suited for you.

1 Display menu

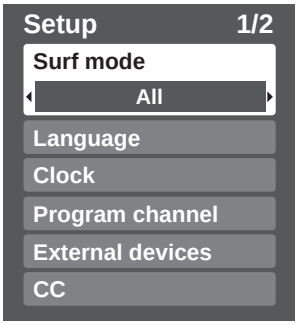
- Displays the functions that can be set (varies according to the input signal)

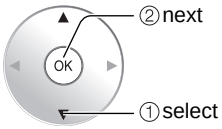
2 Select “Setup”





3 Select the item



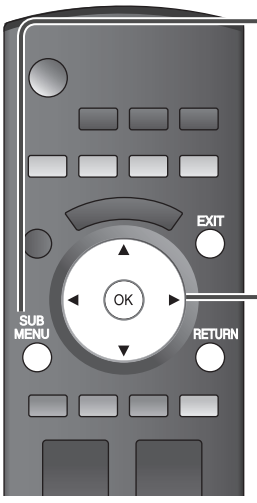


■ **Press to exit from menu screen**

EXIT

■ **Press to return to the previous screen**

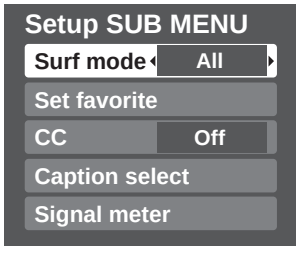
RETURN

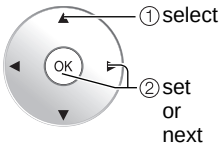


1 Display Sub Menu

SUB MENU

2 Select the item





■ **Menu list**

Menu	Item	
Setup	Surf mode	
	Language	
	Clock	
	Program channel	
	External devices: Input labels	
	External devices: Monitor out	
	CC	
	EZ Sync setting: EZ Sync	
	EZ Sync setting: Power off link	
	EZ Sync setting: Power on link	
	EZ Sync setting: Default speakers	
	Other adjust: Auto power on	
	Other adjust: Side bar	
	Other adjust: No signal shut-off	
	Other adjust: No action shut-off	
	About	
	Reset	

■ **Sub menu list**

Menu	Item	
Setup SUB MENU	Surf mode	
	Set favorite	
	CC	
	Caption select	
	Signal meter	

(Continued)

Adjustments/Configurations (alternatives)	
Sets the mode to select the channel with Channel up/down button **(Favorite/All)** ● Favorite: Only channels registered as FAVORITE (p. 35)	Surf mode: All
Selects the screen menu language (p. 18)	Language
Adjusts the clock (p. 18)	Clock
Sets channels (p. 34)	Program channel
Selects the terminal and label of the external equipment (p. 36) **[Comp. 1/Comp. 2/HDMI 1/HDMI 2/Video 1/Video 2/Video 3]** To prevent howling and image oscillation, stops output of the pictures and audio specified in this menu. (p. 36) **(On/Off)**	
Displays subtitles (Closed Caption) (p. 36)	CC
Controls equipment connected to HDMI terminals (p. 30) **(On/Off)** ● "Power off link", "Power on link", and "Default speakers" cannot be selected if "Off" is set.	EZ Sync: On
Sets "Power off link" of HDMI connection equipment (p. 30) **(Set/No)**	Power off link: Set
Sets "Power on link" of HDMI connection equipment (p. 30) **(Set/No)**	Power on link: Set
Selects the default speakers (p. 30) **(TV/Theater)**	Default speakers: TV
Turns TV On automatically when the cable box or a connected device is turned On **(No/Set)** ● The "Sleep" timer, "On / Off timer", and "First time setup" will not function if "Auto power on" is set. (p. 38)	Auto power on: No
Change the brightness of the side bar **(Bright/Off/Dark/Mid)** (4:3 mode only) The recommended setting is "Bright" to prevent panel "Image retention". (p. 49)	Side bar: Bright
To conserve energy, the TV automatically turns off when NO SIGNAL continues more than 10 minutes. **(Set/No)** **Note** ● Not in use when setting "Auto power on", "On/Off Timer", "Lock", "SD Mode", or Digital channel. ● "No signal shut-off was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after turning the power off by "No signal shut-off". ● The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off.	No signal shut-off: Set
To conserve energy, the TV automatically turns off when no operation of remote or front panel key continues for more than 3 hours. **(No/Set)** **Note** ● Not in use when setting "Auto power on" or "On/Off Timer". ● "No action shut-off was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after turning the power off by "No action shut off". ● The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off.	No action shut-off: No
Displays TV version and software license.	About
Performing Reset will clear all items set with Setup, such as channel settings. (p. 34)	Reset

Adjustments/Configurations (alternatives)
Sets the mode to select the channel with Channel up/down button **(Favorite/All)**
Sets favorite channels. (p. 21)
Displays Closed Caption. (p. 36) **(Off/On)**
Changes the station identifier. (p. 34)
Checks the signal strength if interference or freezing occurs on a digital image. (p. 34)

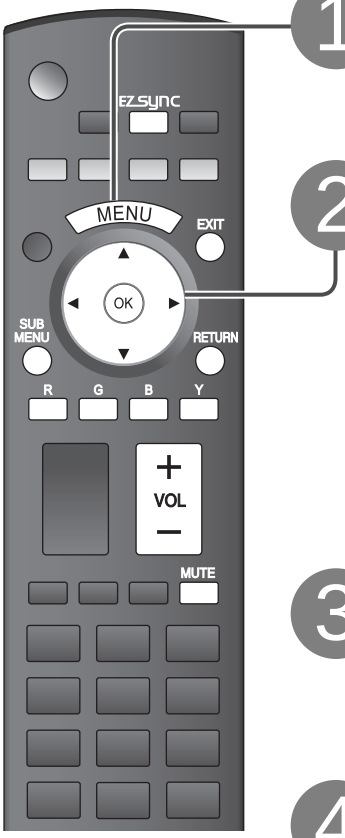
EZ Sync™ “HDAVI Control™”*

* Simultaneously control all Panasonic “HDAVI Control” equipped components using one button on one remote.

Enjoy additional HDMI Inter-Operability with Panasonic products which have “HDAVI Control” function.
This TV supports “HDAVI Control 2” function.
Connections to some Panasonic equipment (DVD Recorder DIGA, HD Camcorder, RAM theater, Player theater, Amplifier, etc.) with HDMI cables allow you to interface automatically.
The equipment with “HDAVI Control” function enables the following operations:
Automatic Input Switching, Power on link, Power off link and Speaker control (p. 31).
In addition, the equipment with “HDAVI Control 2” function enables the following operation:
EZ Sync Control only with TV’s remote control (for “HDAVI Control 2”) (p. 31).
EZ Sync “HDAVI Control”, based on the control functions provided by HDMI which is an industry standard known as HDMI CEC (Consumer Electronics Control), is a unique function that we have developed and added. As such, its operation with other manufacturers’ equipment that supports HDMI CEC cannot be guaranteed.

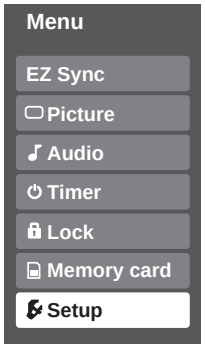
■ **For the first time / When adding new equipment, reconnecting the equipment or changing the setup.**
After the connection turn the equipment on and then switch the TV on.
Select the input mode to HDMI 1 or HDMI 2 (p. 24), and make sure that an image is displayed correctly.

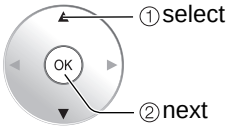
● This function needs an HDMI compliant (fully wired) cable. Non-HDMI-compliant cables cannot be utilized.
It is recommended that you use Panasonic’s HDMI cable.
Recommended part number:
RP-CDHG15 (4.9 ft/1.5 m), RP-CDHG30 (9.8 ft/3.0 m), RP-CDHG50 (16.4 ft/5.0 m)



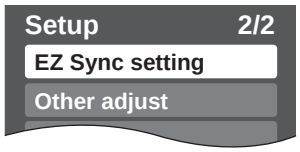
1 Display menu

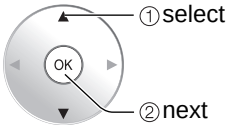
2 Select “Setup”



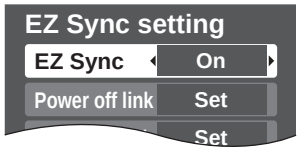


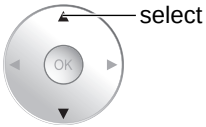
3 Select “EZ Sync setting”





4 Select “EZ Sync”





5 Select “On”

(default is On)

● If no HDMI equipment is connected or standard HDMI equipment (non- “EZ Sync”) is used, set to “Off”.

■ **Press to exit from menu screen**

■ **Press to return to the previous screen**

At the start of the DIGA, Player theater, or RAM theater playback, the TV's input automatically switches to the input based on the playback equipment.

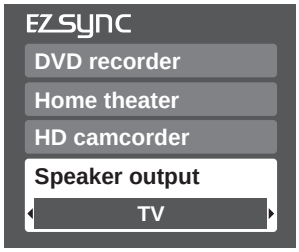
- For the RAM theater, the speakers automatically switch to the theater system.
  If using the DIGA operation, the TV's input automatically switches to the DIGA and DIGA menu is displayed.

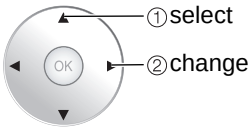
You can select Home theater, or TV speakers for audio output.
Control theater speakers with the TV's remote control.
This function is available only when Panasonic Amplifier or Player theater is connected.

①Press EZ SYNC

②Select "Speaker output"

③Select "Home theater" or "TV"





■ **Home theater:** Adjustment for equipment

Volume up / down ➡ + VOL −

Mute ➡ MUTE

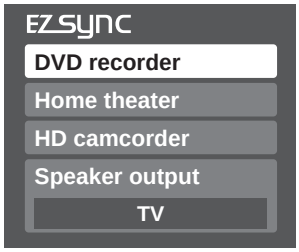
- The sound of the TV is muted.
- When the equipment is turned off, TV speakers become active.
- Selecting "Home theater" turns the equipment on automatically if it is in standby mode.

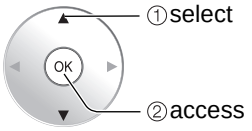
■ **TV:** The TV speakers are active.

In the EZ Sync menu, you can select HDMI connected Panasonic equipment and access it quickly. Continue using your TV's remote control to operate the equipment, pointing it at the TV.

①Press EZ SYNC

②Select the equipment you want to access.





You can select available items only.

③Operate the equipment with the TV's remote control, pointing it at the TV.

- To operate the equipment, read the manual of the equipment.

■ **Available TV's remote control buttons**

OK	Move the cursor/Select
OK	Set/Access
RETURN	Return to the previous menu
SUB MENU	Display the Functions menu on the equipment
R G B Y	Available when the purpose of the keys is displayed on screen

---

When "Set" is selected (p. 29), TV is turned on automatically and switches to the appropriate HDMI input whenever EZ Sync compatible equipment is initially turned on and Play mode is selected.

When "Set" is selected (p. 29) and the TV is turned off, all connected EZ Sync compatible equipment is also automatically turned off.

- DIGA (Panasonic DVD Recorder) will not turn off if it is still in rec mode.

Caution: The TV remains on even if the EZ Sync compatible equipment is turned off.

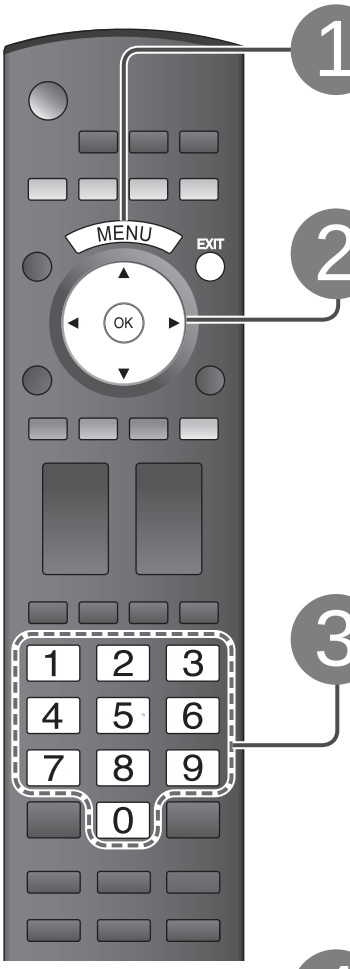
"TV" is the default setting. To set the Home Theater system as default speakers, change the default speakers setting from "TV" to "Theater". Sound will be output from the Home Theater whenever the TV is powered on.

If the "ONE TOUCH PLAY" key is pressed on the remote control for Panasonic Home Theater system, the following sequence of operations is performed automatically.

① Home Theater power switches On, and playback begins.
② TV power switches On, and the playback screen is displayed.
③ Audio is muted on the TV and switches to the theater system.

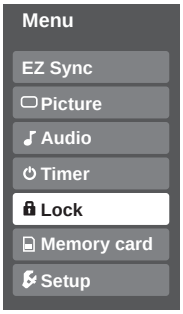
Lock

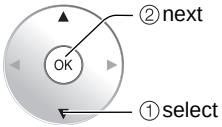
You can lock specified channels or shows to prevent children from watching objectionable content.



1 Display menu

2 Select “Lock”

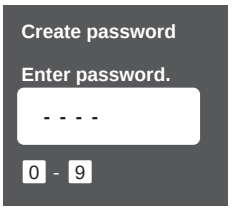




You will be asked to enter your password each time you display the Lock menu.

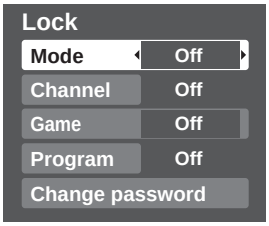
3 Input your 4-digit password

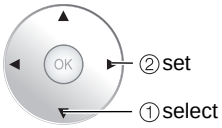
A 4-digit code must be entered to view a blocked program or change rating settings.



- If it your the first time entering the password, enter the password twice in order to register it.

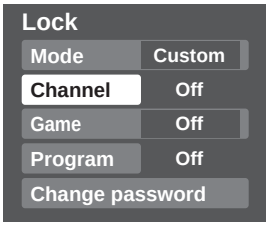
4 Select the Lock mode





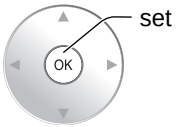
- Off: Unlocks all the lock settings of “Channel”, “Game” and “Program”.
- All: Locks all the inputs regardless of the lock settings of “Channel”, “Game” and “Program”.
- Custom: Locks specified inputs of “Channel”, ”Game” and “Program”.

5 Select the item



- “Channel”, ”Game” and “Program” will grey out unless “Custom” is selected in “Mode”.

6 Set



■ Press to exit from menu screen

Caution

- Make a note of your password in case you forget it. (If you have forgotten your password, consult your local dealer.)

Note

- When you select a locked channel, a message will be displayed that allows you to view the channel if you input your password.

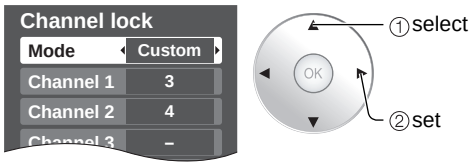
■To select the channel or the rating of the program to be locked

Channel lock

Select up to 7 (1-7) channels to be blocked. These channels will be blocked regardless of the program rating.

①Select “Mode” and set to “Custom”

②Select channel to lock.



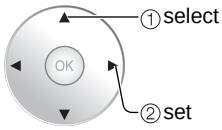
- To lock/unlock all channels:
  Select “Mode” and set to “All” or “Off”.

  All: Locks all channels
  Off: Unlocks all channels

Game lock

Locks Channel 3, Channel 4 and external inputs.

Select “Game” in ❺ and set to “On”.



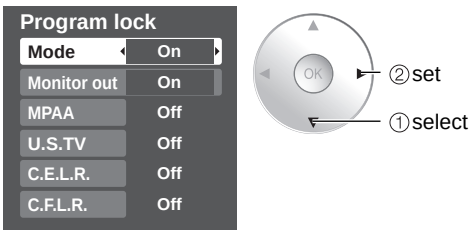
On: Locks
Off: Unlocks

Program lock

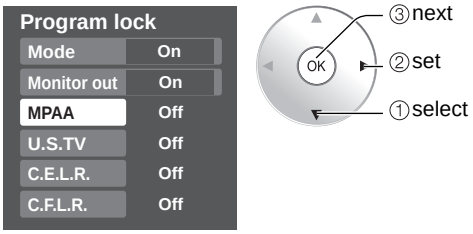
■To set a rating level

“V-chip” technology enables restricted shows to be locked according to TV ratings.

①Select “Mode” and set to “On”.

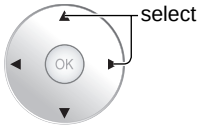


②Select the rating category you wish to follow



- MPAA: U.S movie ratings
- U.S.TV: U.S TV program ratings
- C.E.L.R.: Canadian English ratings
- C.F.L.R.: Canadian French ratings

③Select the rating to be locked



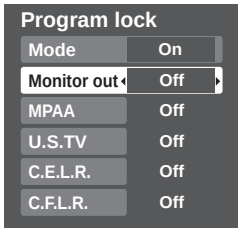
Example of “MPAA” (U.S movie ratings)

NR	No rating
G	General Audience: All ages admitted
PG	Parental Guidance Suggested
PG-13	Parents Strongly Cautioned: Inappropriate for children under 13
R	Restricted: Under 17 requires accompanying parent or adult guardian
NC-17	No one 17 and under admitted
X	Adults only

- To get more information (p. 46)

■To disable recording of the locked program

➡Select “Monitor out” and set to “On”.



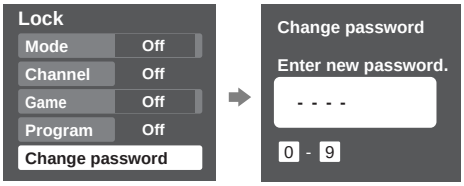
On: Turns on the monitor terminal output for programs that have been set to “Blocked.”
Off: Turns off the monitor terminal output for programs that have been set to “Blocked.”

Change password

■To change the password

①In ❹, select “Change password” and press OK

②Input the new 4-digit password twice

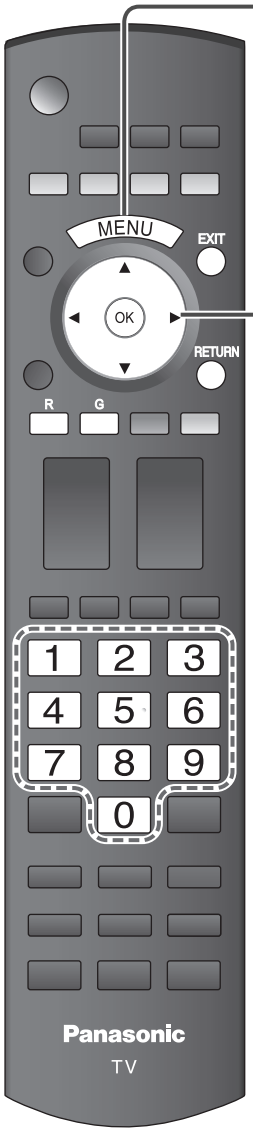


Note

- This television is designed to support the “Downloadable U.S. Region Rating System” when available. (Available only in U.S.A.)
- The Off rating is independent of other ratings.
- When placing a block on a specific-age-based-rating level, the Off rating and any other more restrictive ratings will also be blocked.

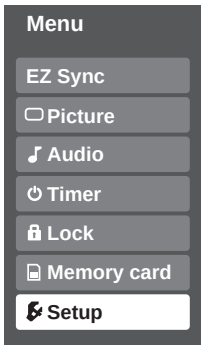
Editing and Setting Channels

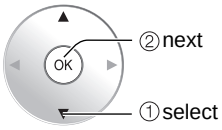
The current channel settings can be changed according to your needs and reception conditions.



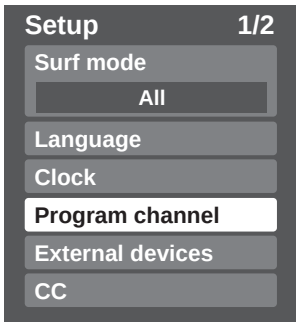
1 Display menu

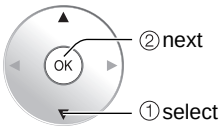
2 Select “Setup”



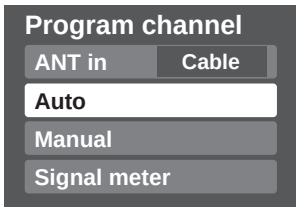


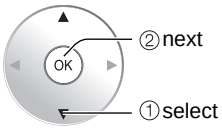
3 Select “Program channel”





4 Select the function





5 Set

■ **Press to exit from menu screen**

EXIT

■ **To reset the settings of setup menu**

① Select “Reset” in Setup menu (❸) and press OK

② Input your 4-digit password with number buttons

③ Select “YES” on the confirmation screen and press OK

Auto

Set automatically

Manual

Set manually

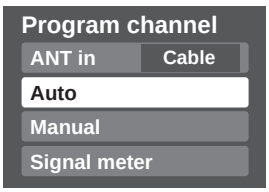
Signal meter

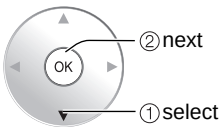
Check signal strength

Automatically searches and adds active channels to memory.

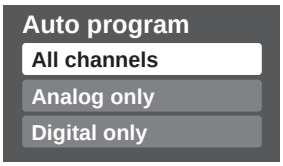
①Select “ANT in” ➡ Select Cable or Antenna (p. 19)

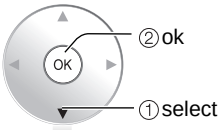
②Select “Auto”





③Select scanning mode (p. 19)



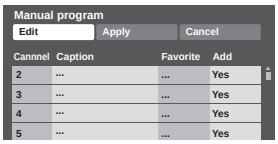


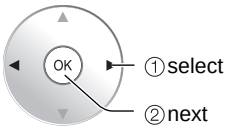
Settings are made automatically

- After completing the setting, select “Apply”. (see below ⑤).
- All previously saved channels are erased.

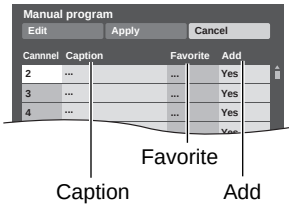
Use this procedure when changing setting of receiving channels or changing the channel display.
Also, use to add or skip channels from channel list manually.

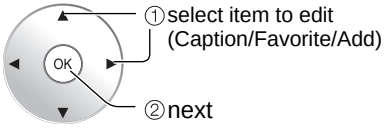
①Select “Edit”



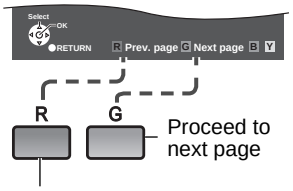


②Select the item to be edited



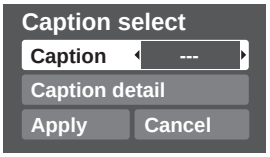


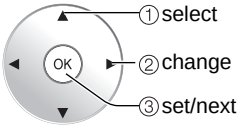
- Caption:
  Changes the station identifier
- Favorite:
  Registers channel to Favorite List
- Add:
  Adds or skips channels



③Edit

- **Caption**

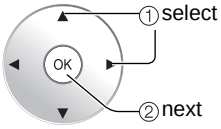




Caption
Select the station identifier

Caption detail
Rename (maximum 7 characters available)

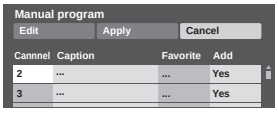
- **Favorite**

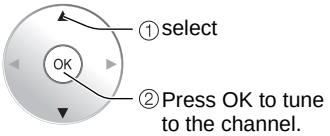


Set favorite
Select the number

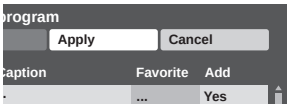
- **Add**
  Press OK to select “Yes (add)” or “No (skip)” ➡ RETURN

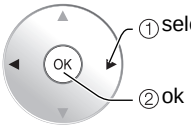
④Move cursor to channel number



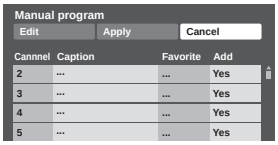


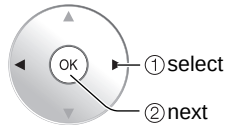
⑤Select “Apply”

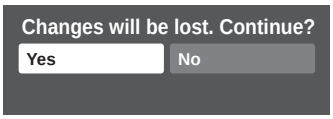


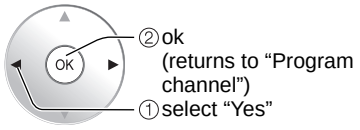


To cancel the Edit

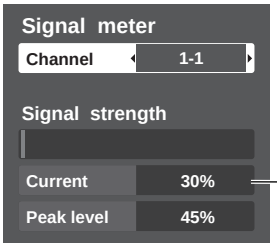


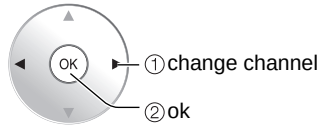






Check the signal strength if interference is found or freezing occurs on a digital image.





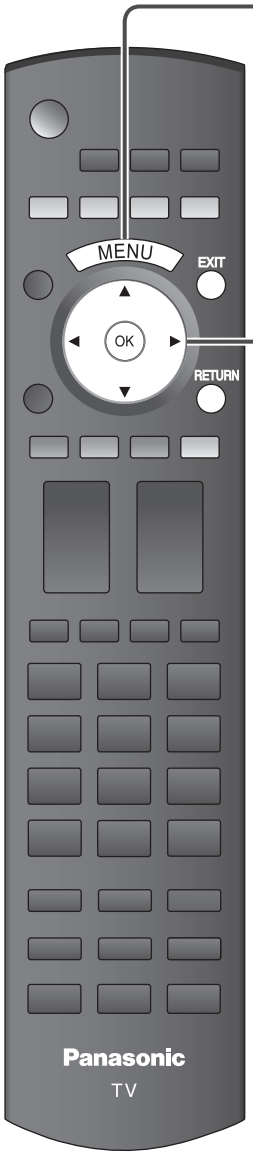
- If the signal is weak, check the antenna. If no problem is found, consult your local dealer.

Note

- Not available if “Cable” is selected in “ANT in” (see above).
- Effective only for digital antenna channels.

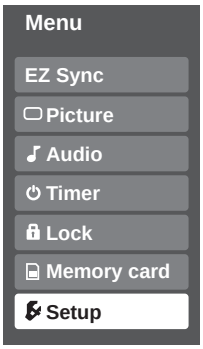
- If “Lock” (p. 32) is activated and “Program channel” is selected, “Enter password.” will be displayed.

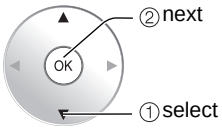
Input Labels/Monitor Out/



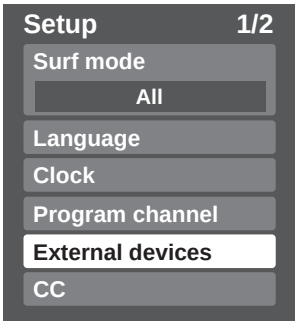
1 **Display menu**

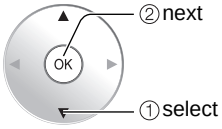
2 **Select “Setup”**



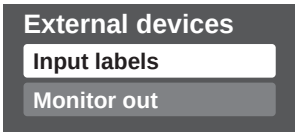


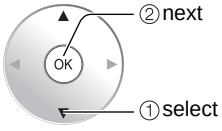
3 **Select “External devices” or “CC”**





4 **(External devices)**
Select “Input labels” or “Monitor out”





5 **Set**

■ **Press to exit from menu screen**

EXIT

Input labels

Display labels of external devices

Monitor out

Stop output of the picture and audio

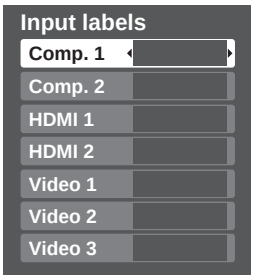
CC

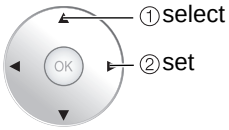
Display Closed Caption

Closed Caption

Devices connected to external input terminals can be labeled for easier identification during input selection.
(In selecting input mode from p. 24 ❷)

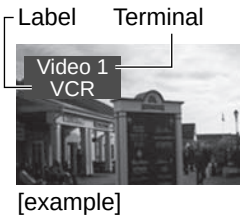
■Select the terminal and label of the external equipment





- Terminals: Comp. 1-2/HDMI 1-2/ Video 1-3
- Label: SKIP*/VCR/DVD/CABLE/ DBS/PVR/GAME/AUX/[BLANK]

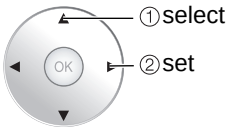
* If “SKIP” is selected, the TV/VIDEO button press will skip its input.



[example]

To prevent howling and image oscillation, stops output of the pictures and audio specified in this menu. (p. 28)

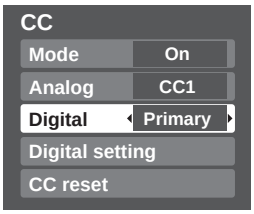
■Select the terminal and set “Off”

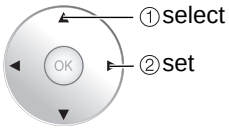


- Select “Off” to stop output of picture and audio. (Video 1/Video 2/Video 3)
- Comp. 1/Comp. 2/HDMI 1/HDMI 2 cannot output video signals regardless of “Monitor out” setting. When equipment (STB, DVD, etc.) is connected to HDMI or COMPONENT terminals, only audio signals can be obtained. From the output terminals, no video signals can be passed.

The television includes a built-in decoder that is capable of providing a text display of the audio. The program being viewed must be transmitting Closed Caption (CC) information. (p. 47)

■Select the item and set





- The settings in “Analog” or “Digital” depend on the broadcaster.

Mode Select “On” (when not using, select “Off”).

Analog (Choose the Closed Caption service of Analog broadcasting.)

CC1-4: Information related to pictures (Appears at bottom of screen)

T1-4: Textual information (Appears over entire screen)

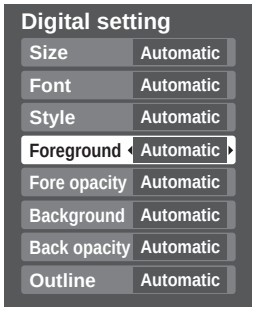
Digital (The Digital Closed Caption menu lets you configure the way you choose to view the digital captioning.)

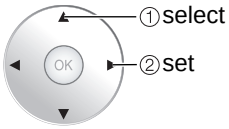
Select the setting.
- “Primary”, “Second.”, “Service 3”, “Service 4”, “Service 5”, “Service 6”

■To make more in-depth display settings in digital programs

① Select “Digital setting” and press OK

② Select the item and set





- Size: Text size
- Font: Text font
- Style: Text style (Raised, Depressed, etc.)
- Foreground: Color of text
- Fore opacity: Opacity of text
- Background: Color of text box
- Back opacity: Opacity of text box
- Outline: Outline color of text

(Identify the setting options on the screen.)

■To reset the settings

Select “CC reset” and press OK

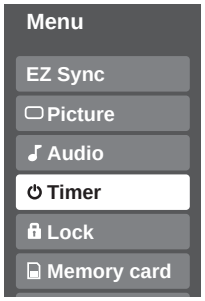
Using Timer

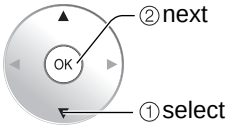
The TV can automatically turn On/Off at the designated date and time.

- The Clock must be set before On time/Off time settings. (p. 18)
- The “Sleep” timer and “On / Off timer” will not function if “Auto power on” (p. 28) is set.

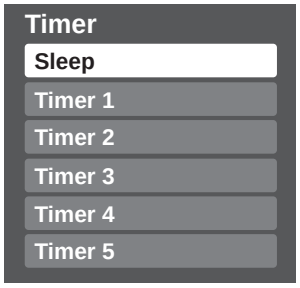
1 Display menu

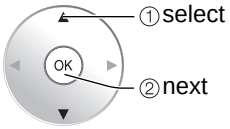
2 Select “Timer”





3 Select the timer to set





Sleep	Turns Off automatically
Timer 1 ~ **Timer 5**	Turns On/Off automatically (5 timers can be set.)

4 Set the timer

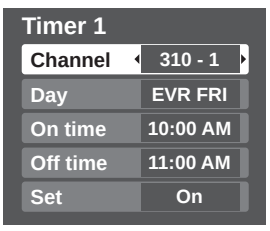
■ To set “Sleep” (Off Timer)

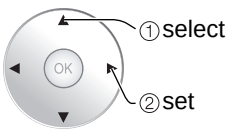
Set to shut the unit off after a pre-selected amount of time.

- 0/30/60/90 (minutes)

■ To set “Timer 1-5” (On/Off Timer)

Select the item and set





Channel	Select the channel
Day	Select the day SUN/MON/TUE/WED/THU/FRI/SAT (displays the nearest future date) MON-FRI/SAT-SUN/DAILY/EVR SUN/EVR MON/ EVR TUE/EVR WED/EVR THU/EVR FRI/ EVR SAT
On time	The time to turn On
Off time	The time to turn Off
Set	Timer setting (On/Off)

■ Press to exit from menu screen

EXIT

■ Press to return to the previous screen

RETURN

Note

- The TV automatically turns Off after 90 minutes when turned On by the Timer. This operation will be cancelled if the Off time is selected or if a key is pressed.

Operating Peripheral Equipment

You can operate other manufacturers' equipment using this TV's remote control.

1 Connect the external equipment to the TV and **Power Off the external equipment**

2 POWER + OK

Press both buttons simultaneously for more than 3 seconds.

- Release the buttons when the equipment selection buttons start flashing.

3 VCR DBS/CBL DVD

Select the equipment
with the equipment selection button

- The selected button remains lit (other buttons are not lit).

4 1 2 3 4 5 6 7 8 9 0

Input the equipment's 4-digit remote control code (p. 43-45)

5 POWER

Operate the equipment with the remote control (p. 42)

- The external equipment turns On.

■If the equipment does not operate with the remote control

- When your equipment has a single code
  ➡ Input the remote control code again
- When your equipment has multiple codes
  ➡ Change the code with ❹ above and test again

■Press to return to the TV mode

TV

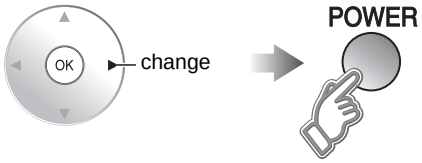
Caution

- Registration will fail if the wrong code is input or it takes more than 30 seconds to register.

To find a code not listed in the code list

This procedure searches all codes and is called the "sequence method."

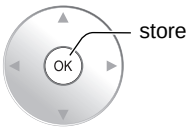
①After step ❸ above, change the code and test



➡ Operate the equipment with the remote control (p. 42)

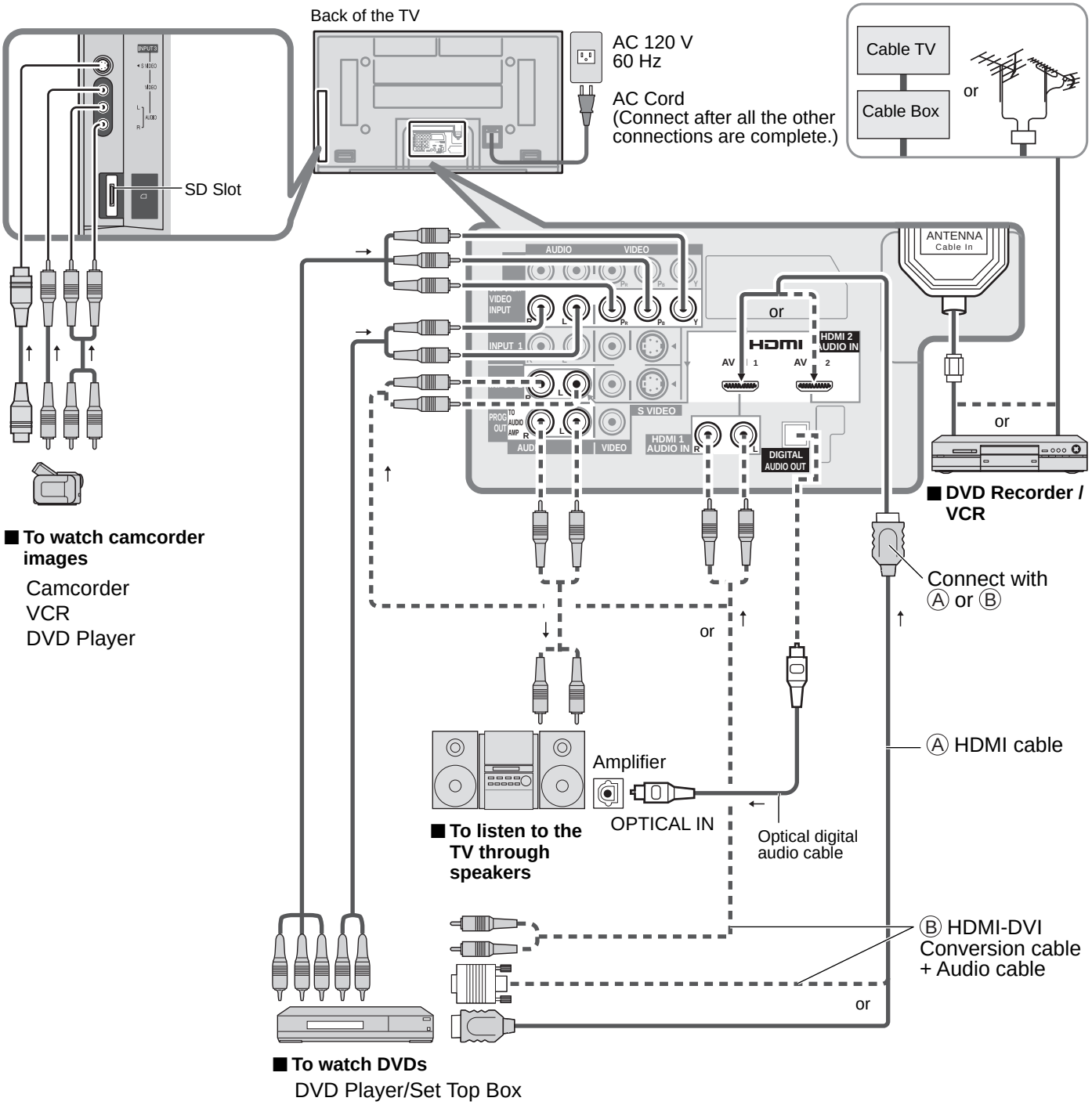
- Repeat until the code is found
- It may take many attempts before the correct code is found

②When the correct code is found



Recommended AV Connections

These diagrams show our recommendations for how to connect the TV unit to your various equipment.
For other connections, consult the instructions and specifications for each piece of equipment (p. 51).
For additional assistance, please visit our website at: www.panasonic.com
www.panasonic.ca



Note

- The picture and audio input signals connected to a terminal specified in “Monitor out” (p. 36) cannot be output from “PROG OUT” terminals.
  However, audio output can be obtained from “DIGITAL AUDIO OUT” terminal.
- To prevent howling and image oscillation, set the “Monitor out” setting when connecting the VCR with loop-connection. (p. 28, 36)
- When equipment (STB, DVD, etc.) is connected to HDMI or COMPONENT terminals, only audio signals can be obtained. From the output terminals, no video signals can be passed.
- When receiving digital channel signals, all digital formats are down-converted to composite NTSC video to be output through the PROG OUT terminals.

EZ Sync™ Connections

Follow the connection diagrams below for HDAVI control of a single AV piece of equipment such as a Panasonic DIGA-DVD recorder, RAM theater, or Player theater system.
Refer to page 30-31 for Setup Menu settings and additional control information.
- Optional HDMI and/or optical cables are not provided.

If connection (or setting) of equipment compatible with HDAVI control is changed, switch the power of this unit Off then On again while the power of all equipment is On (so that the unit can correctly recognize the connected equipment) and check that DIGA, RAM theater, and Player theater playback operate.

Note

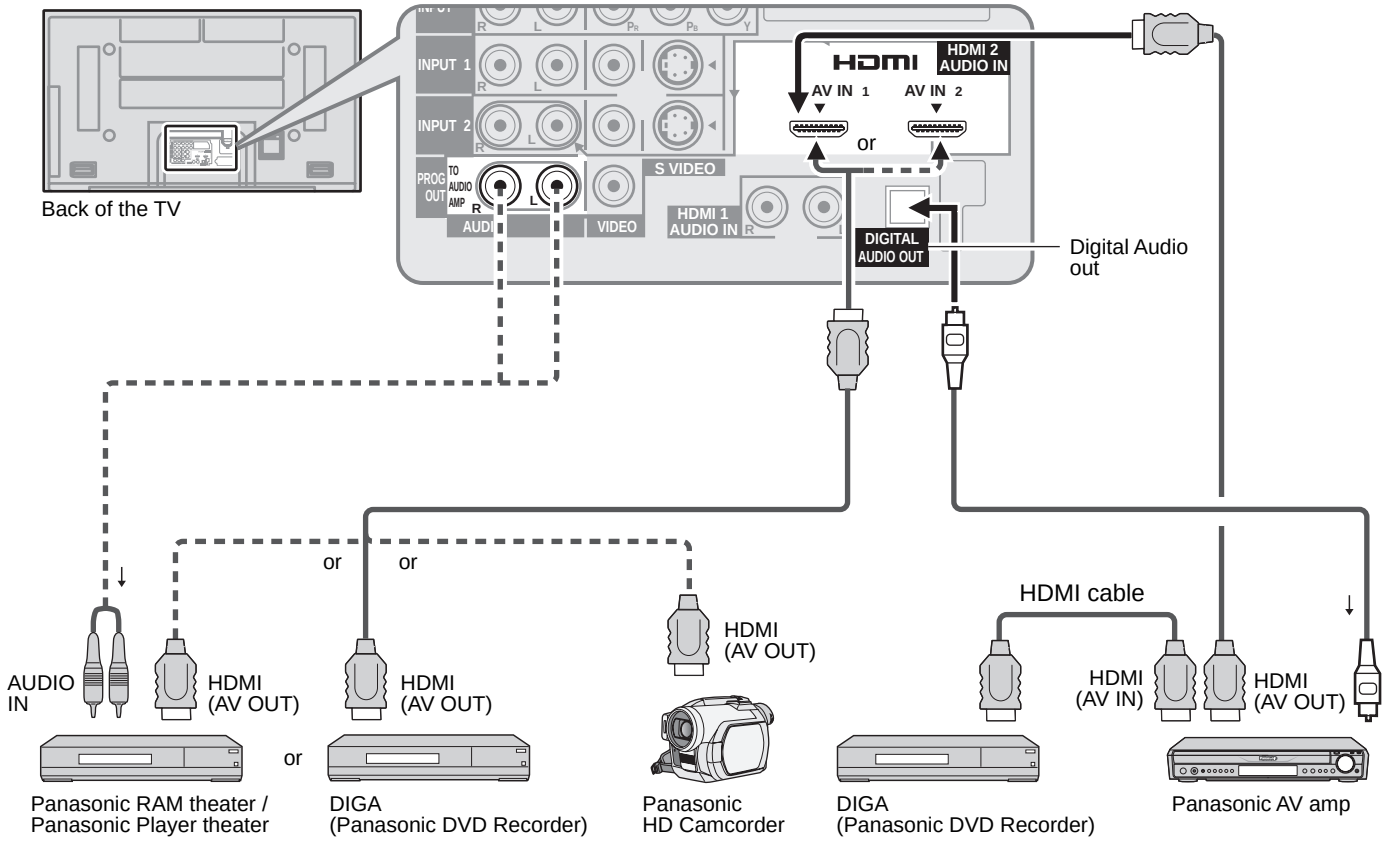
- HDMI 1 is recommended.
  When connecting to HDMI 2, set the input mode to HDMI 2 (p. 24) initially before connecting to HDMI 2. After connection, confirm the HDMI control functions (p. 30-31).

■ Connecting this unit to the DIGA, RAM theater, or Player theater

- For DIGA: Connect with HDMI cable
- For RAM theater and Player theater:
  Connect with the HDMI and audio cables.
  If audio cable is not connected, you cannot listen to the TV program through the theater system.

■ Connecting this unit to a DVD recorder and AV amp

When using an “EZ Sync” audio-video amplifier and a compatible DIGA recorder, use a daisy chain connection as shown below.



- One AV amp and one DIGA recorder can be operated with this unit.
- Be sure to connect the AV amp between this unit and the DIGA recorder.

■ Setting of this unit after connection

After making connections as shown above, set “EZ Sync” (under “EZ Sync setting”) to “On” using the Setup menu. (p. 30-31).

Note

- Individual components of HDMI equipment may require additional menu settings specific to each model. Please refer to their respective operating instruction manuals.
- When audio from other equipment connected to this unit via HDMI is output using “DIGITAL AUDIO OUT” of this unit, the system switches to 2CH audio.
  (When connecting to an AV amp via HDMI, you can enjoy higher sound quality.)

Remote Control Operation/Code List

The following explains how to operate external devices with the remote control.

- Register the remote control codes (p. 39) if you want to operate an external device of another manufacturer. (p. 43-45)

Note

- Operation may not be possible depending on the available memory size of the remote control.
  This remote control is not designed to cover operation of all functions of all models.

■ Remote Control Operation List

This chart defines which keys are operational after programming (if needed) while in the selected remote control mode, CABLE, DBS, VCR, or DVD.

KEY NAME	VCR MODE	DBS/CBL MODE		DVD MODE
		(DBS)	(CBL)	
POWER	Power	Power	Power	Power
SAP	—	LIST	LIST	DVD AUDIO
TV VIDEO	TV Input Switch	TV Input Switch	TV Input Switch	TV Input Switch
MENU	—	Menu	Menu	Functions
EXIT	—	Exit	Exit	—
OK	—	Up/Down/Left/Right	Up/Down/Right/Left	Up/Down/Right/Left
	—	Select	Select	Enter
SUB MENU	—	Guide	Guide	Sub Menu
RETURN	—	PPV/VOD	PPV/VOD	Return
R	—	Red	A	Red
G	—	Green	B	Green
B	—	Blue	C	Blue
Y	—	Yellow	D	Yellow
CH	Channel Up/Down	Channel Up/Down	Channel Up/Down	Channel Up/Down
VOL	TV Volume Up/Down	TV Volume Up/Down	TV Volume Up/Down	TV Volume Up/Down
ASPECT	—	Aspect	Aspect	—
FAVORITE	—	Favorite	Favorite	Direct Navigator
RECALL	Onscreen Display	Info	Info/Display/OSD	Onscreen Display
MUTE	TV Mute	TV Mute	TV Mute	TV Mute
0 – 9	0-9	0-9	0-9	0-9
R-TUNE	—	Last Channel	Last Channel	Drive Select
PROG–	—	Sub Channel	Music	PROG (Sub Channel)
SKIP	—	Page Down/Up	Page Down/Up	Skip Reverse/Forward
TV/VCR	TV/VCR Switch	TV/DBS Switch	TV/CBL Switch	—
SEARCH	Rewind/Fast Forward	Rewind/Fast Forward	Rewind/Fast Forward	Reverse/Forward
REC	VCR Record	PVR Record *1	PVR Record *1	Record
STOP	Stop	Stop	Stop	Stop
PAUSE	Pause	Pause	Pause	Pause
PLAY	Play	Play	Play	Play

*1: Combination type

■ Remote Control Code List

Cable Converter (DBS/CBL)

Brand	Code	Brand	Code	Brand	Code	Brand	Code
A-Mark	0008, 0144	Gibralter	0003	Penney	0000	Tocom	0012
ABC	0003, 0008, 0237	GMI	0883	Philips	0317, 1305	Torx	0003
Accuphase	0003	GoldStar	0144	Pioneer	0144, 0533, 0877, 1877	Toshiba	0000
Acorn	0237	Hamlin	0009, 0273			Tristar	0883
Action	0237	Hitachi	0003, 0008, 0009	Prism	0012	United Cable	0003, 0276
Active	0237	Insight	0476, 0810	Pulsar	0000	US Electronics	0003, 0008, 0276
Americast	0899	Jerrold	0003, 0012, 0276, 0476, 0810	Quasar	0000	V2	0883
Archer	0237			RadioShack	0883	Videoway	0000
BCC	0276	Memorex	0000	RCA	1256	Viewmaster	0883
Bell South	0899	Mitsubishi	0003	Regal	0273, 0276, 0279	Vision	0883
British Telecom	0003	Motorola	0276, 0476, 0810, 1254, 1376	Runco	0000	Vortex View	0883
Century	0008			Samsung	0003, 0144	Zenith	0000, 0525, 0899
Clearmaster	0883	Multitech	0883	Scientific Atlanta	0000, 0003, 0008, 0012, 0237, 0477, 0877, 1877		
ClearMax	0883	Nova Vision	0008				
Cool Box	0883	Novaplex	0008				
Coolmax	0883	NSC	0012	Sony	1006		
Director	0476	Pace	0008, 0237, 0877, 1877	Sprucer	0144		
Fosgate	0276			Starcom	0003		
GE	0144	Panasonic	0000, 0008, 0107, 0144	Supercable	0276		
General Instrument	0003, 0012, 0276, 0476, 0810			Supermax	0883		
		Paragon	0000, 0008, 0525	Thomson	1256		

Cable/PVR Combination (DBS/CBL)

Americast	0899	Motorola	0810, 1376	Scientific Atlanta	0877, 1877	Zenith	0899
General Instrument	0810	Pace	0237, 1877	Sony	1006		
		Pioneer	0877, 1877	Supercable	0276		
Jerrold	0810	RCA	1256	Thomson	1256		

Satellite Receiver (DBS/CBL)

Bell ExpressVu	0775	GE	0392, 0566	Motorola	0856, 0869	Samsung	1108, 1109, 1142, 1276, 1377, 1442, 1609
Chaparral	0216	General Instrument	0869	Netsat	0099		
Crossdigital	1109			Next Level	0869		
DirecTV	0099, 0247, 0392, 0566, 0639, 0724, 0749, 0819, 1076, 1108, 1109, 1142, 1377, 1392, 1414, 1442, 1609, 1639, 1640, 1749, 1856	GOI	0775, 1775	Optimus	0724	SKY	0856, 0099
		Hitachi	0749, 0819, 1250	Panasonic	0247, 0701, 1786	Sony	0639, 1639, 1640
		Houston	0775	Paysat	0724	Star Choice	0869
		HTS	0775, 1775	Philips	0099, 0722, 0724, 0749, 0775, 0819, 1076, 1142, 1442, 1749	Star Trak	0869
		Hughes Network Systems	0749, 1142, 1442, 1749			Thomson	0392, 0566
						Tivo	1142, 1442
Dish Network System	0775, 1005, 1505, 1775	Innova	0099			Toshiba	0749, 0790, 0819, 1285, 1749
		Jerrold	0869	Pioneer	1142, 1442		
Dishpro	0775, 1005, 1505, 1775	JVC	0775, 1775	Primestar	0869	UltimateTV	1392, 1640
		LG	1414	Proscan	0392, 0566	Uniden	0724, 0722
Echostar	0775, 1005, 1505, 1775	Magnavox	0722, 0724	RadioShack	0566, 0775, 0869	Voom	0869
		McIntosh	0869	RCA	0392, 0566, 0775, 1142, 1392, 1442	Zenith	0856, 1856
Expressvu	0775, 1775	Memorex	0724				
Funai	1377	Mitsubishi	0749				

DBS/PVR Combination (S) (DBS/CBL)

DirecTV	0099, 0392, 0639, 1076, 1142, 1377, 1392, 1442, 1640	Dishpro	0775, 1505	Motorola	0869	Sony	0639, 1640
		Echostar	0775, 1505	Philips	1142, 1442	Star Choice	0869
		Expressvu	0775	Proscan	0392		
Dish Network System	0775, 1505	Hughes Network Systems	1142, 1442	RCA	1392		
				Samsung	1442		

VCR (VCR)

A-Mark	0000, 0037, 0240, 0278	Asha	0240	Carver	0035, 0081	Curtis Mathes	0000, 0035, 0060, 0162, 0240, 0278, 0432, 1035
		Astra	0035, 0240	CCE	0278		
ABS	1972	Audiovox	0037, 0038, 0278	Cineral	0278		
Admiral	0039, 0047, 0048, 0060, 0209, 0479	Avis	0000	Citizen	0000, 0035, 0037, 0209, 0240, 0278, 0479, 1278	Cybernex	0240
		Beaumark	0240			CyberPower	1972
Adventura	0000, 0037, 0240	Bell & Howell	0000, 0035, 0039, 0048, 0479			Daewoo	0037, 0045, 0278, 1278
Aiko	0278			Classic	0037		
Aiwa	0000, 0037	Broksonic	0002, 0121, 0209, 0479, 1479	Colortyme	0035, 0045, 0060, 0278	Daytron	0037, 0278
Alba	0209, 0278					Dell	1972
Alienware	1972	Calix	0037	Colt	0000	Denon	0042, 0081
Allegro	0039	Candle	0037, 0038	Craig	0037, 0047, 0240	DirecTV	0739
America Action	0278	Canon	0035	Criterion	0000	Dual	0000
American High	0035, 0081	Capehart	0002	Crosley	0000, 0035, 0081	Durabrand	0038, 0039
Amstrad	0000	Carrera	0240	Crown	0278	Dynatech	0000, 0240

Remote Control Operation/Code List (Continued)

■ Remote Control Code List

VCR (VCR)

Brand	Code
Electrohome	0000, 0037, 0043, 0060, 0209, 0240
Electrophonic	0037
Emerald	0121, 0184
Emerex	0032
Emerson	0000, 0002, 0037, 0043, 0121, 0184, 0209, 0240, 0278, 0479, 1278, 1479
Fisher	0000, 0039, 0047
Fuji	0033, 0035
Fujitsu	0000
Funai	0000, 0037, 0278
Garrard	0000
Gateway	1972
GE	0000, 0035, 0048, 0060, 0240, 0807, 1035, 1060
Gemini	0060
Genexxa	0000, 0037, 0278
Go Video	0240, 0432, 0614
GoldStar	0000, 0035, 0037, 0038, 0039, 0278, 1237
Goodmans	0000, 0037, 0081, 0278
Gradiente	0000
Granada	0042, 0081
Grundig	0081
Harley Davidson	0000
Harman/Kardon	0038, 0081
Hewlett Packard	1972
HI-Q	0000, 0035, 0047
Hitachi	0000, 0035, 0037, 0042, 0045, 0089
Howard Computers	1972
HP	1972
Hughes Network Systems	0042, 0739
Humax	0739
Hush	1972
Hytek	0000, 0047
iBUYPOWER	1972
ITT Nokia	0240
Janeil	0240
Jensen	0067
JVC	0067
KEC	0037, 0278
Kenwood	0038, 0067
Kodak	0035, 0037
KTV	0000
LG	0037, 0038, 0240
Linksys	1972
Lloyd's	0000, 0038, 0240
Loewe	0081
Logik	0000, 0240
Lumatron	0278
LXI	0000, 0037, 0042, 0067
M Electronic	0240
Magnasonic	0000, 0037, 0240, 0278, 1278
Magnavox	0000, 0035, 0037, 0039, 0048, 0081, 0240, 0618, 1781
Magnin	0240
Marantz	0035, 0038, 0081
Marta	0037
Matsui	0037, 0209
Matsushita	0035, 0162, 0081
Media Center PC	1972
MEI	0035
Memorex	0000, 0035, 0037, 0039, 0162, 0047, 0048, 0209, 0240, 0278, 0479, 1237
Metz	0037
MGA	0043, 0060, 0240
MGN Technology	0240
Microsoft	1972
Midland	0240
Mind	1972
Minolta	0042
Mitsubishi	0000, 0042, 0043, 0047, 0048, 0060, 0067, 0807
Motorola	0035, 0048
MTC	0000, 0240
MTX	0000
Multitech	0000, 0039
NAD	0240
NEC	0038, 0067
Nikko	0037, 0278
Nikkodo	0037, 0278
Nishi	0240
Niveus Media	1972
Noblex	0240
Northgate	1972
Olympus	0035, 0162
Optimus	0000, 0035, 0037, 0047, 0048, 0162, 0240, 0432, 1062
Orion	0000, 0002, 0121, 0184, 0209, 0240, 0278, 0479, 1479
Panama	0035
Panasonic	0000, 0035, 0162, 0225, 0614, 0616, 1035, 1062, 1244
Penney	0000, 0035, 0037, 0038, 0042, 0047, 0067, 0081, 0162, 0240, 1035, 1237
Pentax	0042
Philco	0000, 0035, 0081, 0209, 0479
Philips	0000, 0035, 0048, 0045, 0081, 0162, 0209, 0616, 0618, 0739
Pilot	0037
Pioneer	0042, 0067, 0081, 0162
Polk Audio	0081
Portland	0278
Profitronic	0240
Proscan	0060, 1060
Protec	0000
Pulsar	0039, 0240, 0278
Pulser	0240
Quartz	0035, 0047
Quasar	0002, 0035, 0162, 1035
RadioShack	0000, 0035, 0037, 0047, 0048, 0162, 0240
Radix	0037
Randex	0037
RCA	0000, 0035, 0042, 0045, 0048, 0060, 0240, 0807, 0880, 1035, 1060
Realistic	0000, 0035, 0037, 0047, 0048, 0121, 0162, 0240, 0278
ReplayTV	0614, 0616
Ricavision	1972
Runco	0039
Samsung	0000, 0038, 0045, 0060, 0240, 0432, 0739, 1014
Samtron	0240
Sanky	0039, 0048
Sansui	0000, 0002, 0067, 0209, 0240, 0479, 1479
Sanyo	0000, 0047, 0240, 0479
Scott	0043, 0045, 0184, 0121
Sears	0000, 0033, 0035, 0037, 0039, 0042, 0043, 0045, 0047, 0048, 0060, 0067, 0162, 0209, 1237
Sharp	0048, 0047, 0032, 0000, 0807
Shintom	0000, 0039, 0240
Shogun	0240
Siemens	0037
Signature	0000, 0035, 0037, 0048, 0060, 0479
Singer	0037, 0240
Sonic Blue	0614, 0616
Sony	0000, 0032, 0033, 0035, 0047, 0067, 0636, 1232, 1972
Soundmaster	0000
Stack 9	1972
STS	0042
SV2000	0000
SVA	0000
Sylvania	0000, 0035, 0043, 0081, 1781
Symphonic	0000, 0002, 0240
Systemax	1972
Tagar Systems	1972
Tandy	0000
Tatung	0000, 0048, 0067, 0081
Teac	0000, 0067
Technics	0000, 0035, 0037, 0162
Teknika	0000, 0035, 0037
Telecorder	0240
Tevion	0479
Thomas	0000, 0002
Thomson	0060
Tisonic	0278
Tivo	0618, 0636, 0739, 1996
TMK	0000, 0240
TNIX	0037
Tocom	0240
Toshiba	0000, 0043, 0045, 0209, 0240, 0845, 1008, 1145, 1972, 1996
Tosonic	0278
Totevision	0037, 0240
Touch	1972
Trix	0037
Ultra	0045, 0278
Unitech	0240
Vector	0045
Vector Research	0038, 0184
Victor	0067
Video Concepts	0045
Videomagic	0037
Videosonic	0000, 0240
Viewsonic	1972
Villain	0000
Voodoo	1972
Wards	0000, 0060, 0033, 0035, 0037, 0038, 0042, 0043, 0045, 0047, 0048, 0081, 0240, 0479
White Westinghouse	0000, 0209, 0278, 0479
World	0002, 0209, 0479
XR-1000	0000, 0035, 0240
Yamaha	0038
Zenith	0000, 0033, 0037, 0039, 0209, 0278, 0479, 1479
ZT Group	1972

DBS/PVR Combination (V) (DBS/CBL)

Brand	Code	Brand	Code	Brand	Code	Brand	Code
Hughes Network Systems	0739	Philips	0739				
		Samsung	0739				

PVR (V) (DBS/CBL)

ABS	1972	Hughes Network Systems	0739	Northgate	1972	Tagar Systems	1972
Alienware	1972			Panasonic	0616	Tivo	0618, 0636, 0739
CyberPower	1972	Humax	0739	Philips	0618, 0739	Toshiba	1008, 1972, 1996
Dell	1972	Hush	1972	RCA	0880	Touch	1972
DirecTV	0739	iBUYPOWER	1972	ReplayTV	0614, 0616	Viewsonic	1972
Gateway	1972	Linksys	1972	Samsung	0739	Voodoo	1972
Hewlett Packard	1972	Media Center PC	1972	Sonic Blue	0614, 0616	ZT Group	1972
Howard Computers	1972	Microsoft	1972	Sony	0636, 1972		
		Mind	1972	Stack 9	1972		
HP	1972	Niveus Media	1972	Systemax	1972		

DVD (DVD)

3D LAB	0503, 0539	Funai	0675, 1268	Minato	0752	Samsung	0490, 0573, 0744, 0820, 0899, 1044, 1075
Aiwa	0641	GE	0522, 0815	Mintek	0839		
Akai	0695, 0899	Go Video	0573, 0741, 0744, 0869, 1044, 1075	Mitsubishi	1521, 0521		
Alba	0672			NAD	0591, 0741	Sansui	0695
Alco	0790	GoldStar	0741, 0869	NEC	0785, 0869	Sanyo	0675, 0695
Allegro	0869	Goodmans	0790	Onkyo	0503, 0627, 0792	Schwaiger	0752
Apex Digital	0533, 0672, 1020, 1056, 1061	Gradiente	0490, 0651	Optimus	0571	Sharp	0630, 0675, 0752, 1256
		Grundig	0539	Oritron	0651		
Arrgo	1023	Harman/Kardon	0582	Palsonic	0672	Shinsonic	0533, 0839
Audiovox	0790	Hitachi	0573, 0664	Panasonic	0503, 0490, 0571, 0703, 1362, 1462, 1490, 1762, 2006, 2016, 2026, 1779	Slim Art	0784
Blue Parade	0571	Hiteker	0672			Sonic Blue	0573, 0869
Blue Sky	0695	Insignia	1268			Sony	0533, 0864, 1033, 1431, 1533
Brandt	0651	Integra	0571, 0627				
Broksonic	0695	JMB	0695	Philips	0503, 0539, 0646, 0675, 1267, 1354	Sylvania	0675, 1268
California Audio Labs	0490	JVC	0558, 0623, 0867, 1164			Symphonic	0675, 1268
				Pioneer	0525, 0571, 0631	Teac	0571, 0790
Celestial	1020	Kawasaki	0790	Polaroid	1020, 1061	Technics	0490, 0703
Centrex	0672	Kenwood	0490, 0534	Polk Audio	0539	Tevion	0651
CineVision	0869	KLH	0790, 1020	Presidian	0675	Theta Digital	0571
Clairtone	0571	Kloss	0533	Proceed	0672	Thomson	0522
Creative	0503, 0539	Koss	0651, 1061	Proscan	0522	Toshiba	0503, 0539, 0573, 0695, 1045, 1154
CyberHome	0816, 0874, 1023, 1129	Lasonic	0627	Qwestar	0651		
		Lecson	1533	Radionette	0741	Universum	0591
Daewoo	0784, 0869, 1172	LG	0591, 0741, 0869	RadioShack	0571	Urban Concepts	0503, 0539
Denon	0490, 0634	LiteOn	1058	RCA	0522, 0571, 0790, 0822, 1022, 1132	US Logic	0839
Digitrex	0672	Loewe	0741			Venturer	0790
Disney	0675	Magnasonic	0651, 0675	Realistic	0571	Xbox	0522
Dual	0675	Magnavox	0503, 0539, 0646, 0675, 1268	Reoc	0752	Yamaha	0490, 0539, 0545
DVD2000	0521			Rio	0869	Zenith	0503, 0591, 0741, 0869
Emerson	0591, 0675, 1268	Marantz	0503, 0539, 0675	Rotel	0623		
Enterprise	0591	McIntosh	1533	Saba	0651	Zeus	0784
Entivo	0503, 0539	Medion	0651	Sampo	0752		
ESA	1268	Memorex	0695				
Firstline	0651	Microsoft	0522				

DVD-Recorder (Y) (DVD)

Apex Digital	1056	LG	0741	Pioneer	0631	Sylvania	0675
CyberHome	1129	Magnavox	0646, 0675	RCA	0522	Zenith	0741
Funai	0675	Panasonic	0490, 2006, 2016, 2026	Samsung	0490		
Go Video	0741			Sharp	0675		
JVC	1164	Philips	0646	Sony	1033, 1431		

Ratings List for Lock

"V-chip" technology enables you to lock channels or shows according to standard ratings set by the entertainment industry. (p. 33)

■ U.S. MOVIE RATINGS (MPAA)

NR	NO RATING (NOT RATED) AND NA (NOT APPLICABLE) PROGRAMS. Movie has not been rated or rating does not apply.
G	GENERAL AUDIENCES. All ages admitted.
PG	PARENTAL GUIDANCE SUGGESTED. Some material may not be suitable for children.
PG-13	PARENTS STRONGLY CAUTIONED. Some material may be inappropriate for children under 13.
R	RESTRICTED. Under 17 requires accompanying parent or adult guardian.
NC-17	NO ONE 17 AND UNDER ADMITTED.
X	ADULTS ONLY.

■ U.S. TV PROGRAMS RATINGS (U. S. TV)

Age-based Group	Age-based Ratings	Possible Content Selections	Description
NR (Not Rated)	TV-NR	● Viewable ● Blocked	Not Rated.
Youth	TV-Y	● Viewable ● Blocked	All children. The themes and elements in this program are specifically designed for a very young audience, including children from ages 2-6.
	TV-Y7	● FV Blocked ● Viewable ● Blocked	Directed to older children. Themes and elements in this program may include mild physical or comedic violence, or may frighten children under the age of 7.
Guidance	TV-G	● Viewable ● Blocked	General audience. It contains little or no violence, no strong language, and little or no sexual dialogue or situations.
	TV-PG	● D,L,S,V (all selected) ● Any combination of D, L, S, V	Parental guidance suggested. The program may contain infrequent coarse language, limited violence, some suggestive sexual dialogue and situations.
	TV-14	● D,L,S,V (all selected) ● Any combination of D, L, S, V	Parents strongly cautioned. This program may contain sophisticated themes, sexual content, strong language and more intense violence.
	TV-MA	● L,S,V (all selected) ● Any combination of L, S, V	Mature audiences only. This program may contain mature themes, profane language, graphic violence, and explicit sexual content.

FV: Fantasy/Cartoon Violence. V: Violence S: Sex L: Offensive Language D: Dialogue with sexual content.

■ CANADIAN ENGLISH RATINGS (C. E. L. R.)

E	Exempt - Exempt programming includes: news, sports, documentaries and other information programming, talk shows, music videos, and variety programming.
C	Programming intended for children under age 8. No offensive language, nudity or sexual content.
C8+	Programming generally considered acceptable for children 8 years and over. No profanity, nudity or sexual content.
G	General programming, suitable for all audiences.
PG	Parental Guidance suggested. Some material may not be suitable for children.
14+	Programming contains themes or content which may not be suitable for viewers under the age of 14. Parents are strongly cautioned to exercise discretion in permitting viewing by pre-teens and early teens.
18+	18+ years old. Programming restricted to adults. Contains constant violence or scenes of extreme violence.

■ CANADIAN FRENCH RATINGS (C. F. L. R.)

E	Exempt - Exempt programming.
G	General - Programming intended for audience of all ages. Contains no violence, or the violence content is minimal or is depicted appropriately.
8 ans+	8+ General - Not recommended for young children. Programming intended for a broad audience but contains light or occasional violence. Adult supervision recommended.
13 ans+	Programming may not be suitable for children under the age of 13 - Contains either a few violent scenes or one or more sufficiently violent scenes to affect them. Adult supervision strongly suggested.
16 ans+	Programming may not be suitable for children under the age of 16 - Contains frequent scenes of violence or intense violence.
18 ans+	Programming restricted to adults. Contains constant violence or scenes of extreme violence.

Caution

- The V-Chip system that is used in this set is capable of blocking "NR" programs (non rated, not applicable and none) as per FCC Rules Section15.120(e)(2). If the option of blocking "NR" programs is chosen "unexpected and possibly confusing results may occur, and you may not receive emergency bulletins or any of the following types of programming:"
  - • Emergency Bulletins (Such as EAS messages, weather warnings and others)
  - • Locally originated programming • News • Political • Public Service Announcements • Religious • Sports • Weather

Technical Information

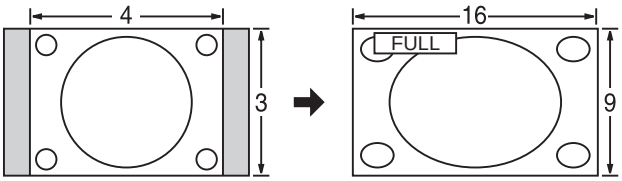
Closed Caption (CC)

- For viewing Closed Caption of digital broadcasting, set the aspect ratio to FULL.
  (If viewing with H-FILL, JUST, ZOOM or 4:3, characters will be cut off.)
- The Closed Caption is not displayed when you use HDMI connection.
- If analog connected equipment is used for displaying or recording, Closed Caption (CC) should be set On/Off on the connected equipment.
  The CC mode setting of the TV will not affect the analog input.
  If a digital program is being output in analog format, the CC data will also be output in analog format.
  If digital connected equipment is used for input, CC should be set On on either the connected equipment or the TV.
  If CC is set On on both the connected equipment and the TV, captions from each unit will overlap.

Aspect Ratio

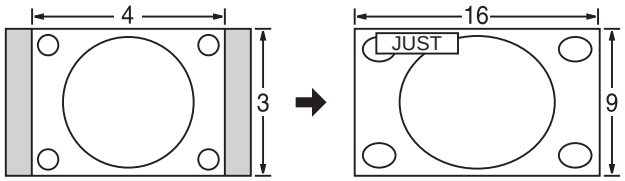
Lets you choose the aspect depending on the format of the received signal and your preference. (p. 21)
(e.g.: in case of 4:3 image)

- FULL



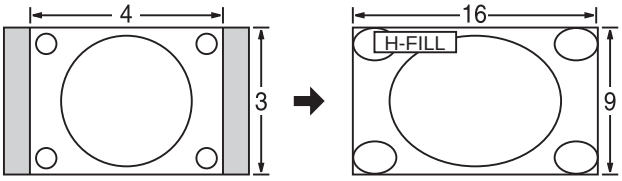
Enlarges the 4:3 image horizontally to the screen's side edges.
(Recommended for anamorphic picture)

- JUST



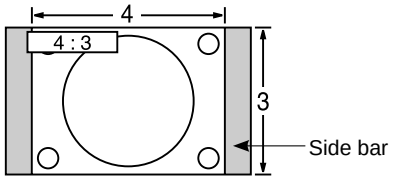
Stretches to justify the 4:3 image to the four corners of the screen.
(Recommended for normal TV broadcast)

- H-FILL



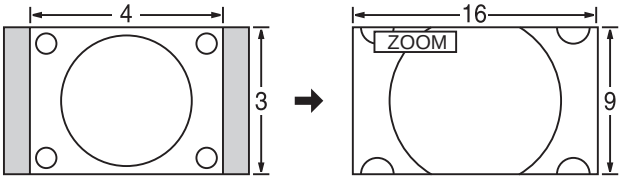
Enlarges the 4:3 image horizontally to the screen's side edges.
The side edges of the image are cut off.

- 4:3



Standard
(Note that "Image retention" of the side bar may occur from displaying it for a long time.)

- ZOOM



Enlarges the 4:3 image to the entire screen.
(Recommended for Letter Box)

Note

- 480i (4:3), 480i (16:9), 480p (4:3), 480p (16:9):
  FULL, JUST, 4:3 or ZOOM
- 1080p / 1080i / 720p:
  FULL, H-FILL, JUST, 4:3 or ZOOM
- When the signal is 720p/1080i/1080p, the aspect mode automatically defaults to Full after turning off the TV, after changing input mode, or after changed signal resolution other than 720p/1080i/1080p.

- Zoom adjust
  Vertical image position and size can be adjusted in "ZOOM".
  ①Select "Zoom adjust" on the "Picture" menu. (p. 26-27)
  ②V-position: Vertical position adjustment ③ V-size: Vertical size adjustment

- To reset the aspect ratio ➡ (OK)

Technical Information (Continued)

Data format for SD Card browsing

Photo:	Still images recorded with digital still cameras compatible with JPEG files of DCF* and EXIF** standards
Data format:	Baseline JPEG (Sub-sampling: 4:4:4, 4:2:2 or 4:2:0)
Max. number of files:	9,999
Image resolution:	160 x 120 to 10,000,000

* DCF (Design rule for camera file system): A Japan Electronics and Information Technology Industries Association's standard

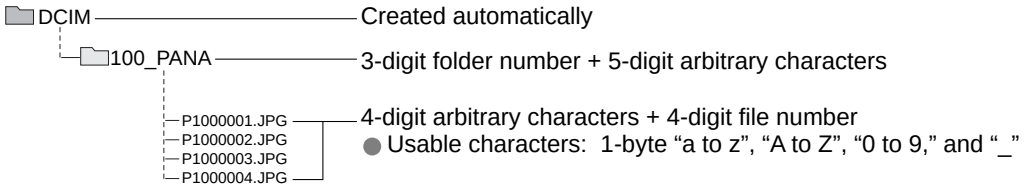
** EXIF (Exchangeable Image File Format)

Caution

- A JPEG image modified with a PC may not be displayed.
- Partly degraded files might be displayed at a reduced resolution.

Note

- Folder structure viewed in PC



- The folder and file names may be different depending on the digital camera used.
- For the suitable SD Memory Cards, please confirm the latest information on the following website.
  http://panasonic.co.jp/pavc/global/cs (This site is in English only)

SD Card warning messages

Message	Meaning
Is memory card in?	● The card is not inserted.
No file	● The card has no data or this type of data is not supported.
Cannot read file	● The file is broken or unreadable. ● The TV does not support the format.

GalleryPlayer warning messages

Cannot display image due to incorrect ID data.	● There is a problem with your TV decoder. ● If this message appears, please contact Panasonic Service Center for assistance. Refer to page 54, 56 (Limited Warranty), page 55 (Customer Services Directory)
Cannot display image on SD card.	● There is a probrem with the data. Check the data inside the SD card.

Cautions in handling SD Card:

- Do not remove the card while the unit is accessing data (this can damage card or unit).
- Do not touch the terminals on the back of the card.
- Do not subject the card to a high pressure or impact.
- Insert the card in the correct direction (otherwise, card may be damaged).
- Electrical interference, static electricity, or erroneous operation may damage the data or card.
- Back up the recorded data at regular intervals in case of deteriorated or damaged data or erratic operation of the unit. (Panasonic is not liable for any deterioration or damage of recorded data.)

DIGITAL AUDIO OUT terminals

You can enjoy your home theater by connecting a Dolby Digital (5.1 channel) decoder and "Multi Channel" amplifier to the DIGITAL AUDIO OUT terminals.

Caution

- Depending on your DVD player and DVD-Audio software the copyright protection function may operate and disable optical output.
- External speakers cannot be connected directly to PROG OUT terminals.
- When an ATSC channel is selected, the output from the DIGITAL AUDIO OUT jack will be Dolby Digital. When an NTSC channel is selected, the output will be PCM.

EZ Sync™ "HDAVI Control™"

HDMI connections to some Panasonic equipment allow you to interface automatically. (p. 30)

- This function may not work normally depending on the equipment condition.
- The equipment can be operated by other remote controls with this function on even if TV is in Standby mode.
- Image or sound may not be available for the first few seconds when the playback starts.
- Image or sound may not be available for the first few seconds when Input mode is switched.
- Volume function will be displayed when adjusting the volume of the equipment.
- If you connect the same kind of equipment at once (for example: one DIGA to HDMI 1 / another DIGA to HDMI 2), EZ Sync™ is available for the terminal with the smaller number.
- If you connect the equipment that has "HDAVI Control 2" function to the TV with HDMI cable, the sound from DIGITAL AUDIO OUT terminal can be output as multi channel surround.
- "HDAVI Control 2" is the newest standard (current as of February, 2007) for Panasonic's HDAVI Control compatible equipment. This standard is compatible with Panasonic's conventional HDAVI equipment.

HDMI connection

HDMI (high-definition multimedia interface) allows you to enjoy high-definition digital images and high-quality sound by connecting the TV unit and the devices.
HDMI-compatible equipment (*1) with an HDMI or DVI output terminal, such as a set-top box or a DVD player, can be connected to the HDMI connector using an HDMI compliant (fully wired) cable.

- HDMI is the world's first complete digital consumer AV interface complying with a non-compression standard.
- If the external equipment has only a DVI output, connect to the HDMI terminal via a DVI to HDMI adapter cable (*2).
- When the DVI to HDMI adapter cable is used, connect the audio cable to the audio input terminal.
- Audio settings can be made on the "HDMI 1 in" or "HDMI 2 in" menu screen. (p. 26)
  Applicable audio signal sampling frequencies (L.PCM): 48 kHz, 44.1 kHz, 32 kHz

(*1): The HDMI logo is displayed on an HDMI-compliant device.
(*2): Enquire at your local digital equipment retailer shop.

Caution

- Use with a PC is not assumed.
- All signals are reformatted before being displayed on the screen.
- If the connected device has an aspect adjustment function, set the aspect ratio to "16:9".
- These HDMI connectors are "type A".
- These HDMI connectors are compatible with HDCP (High-Bandwidth Digital Content Protection) copyright protection.
- A device having no digital output terminal may be connected to the input terminal of either "COMPONENT", "S VIDEO", or "VIDEO" to receive analog signals.
- The HDMI input terminal can be used with only the following image signals: 480i, 480p, 720p, 1080i and 1080p. Match the output setting of the digital device.
- For details of the applicable HDMI signals, see below.

Input signals that can be displayed

* Mark: Applicable input signal for Component (Y, P_B, P_R) and HDMI

	horizontal frequency (kHz)	vertical frequency (Hz)	COMPONENT	HDMI
525 (480) / 60i	15.73	59.94	*	*
525 (480) /60p	31.47	59.94	*	*
750 (720) /60p	45.00	59.94	*	*
1,125 (1,080) /60i	33.75	59.94	*	*
1,125 (1,080)/60p	67.43	59.94		*
1,125 (1,080)/60p	67.50	60.00		*

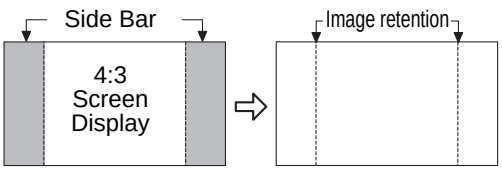
Note

- Signals other than those shown above may not be displayed properly.
- The above signals are reformatted for optimal viewing on your display.

Side Bar

Do not display a picture in 4:3 mode for an extended period, as this can cause "Image retention" to remain on either or both sides of the display field.
To reduce the risk of such "Image retention", change the brightness of the side bars.

- The side bar may flash (alternate black/white) depending on the picture. Using Cinema mode will reduce such flashing (See below).



Picture mode

- Vivid (default): Provides enhanced picture contrast and sharpness for viewing in a well-lit room.
- Standard: Recommended for normal viewing conditions with subdued room lighting.
- Cinema: For watching movies in a darkened room. It provides a soft, film-like picture.
- Custom (Photo): Customizes each item according to your taste.
  Photo is displayed in JPEG menu.

Maintenance

First, unplug the Power cord plug from the wall outlet.

Display panel

The front of the display panel has been specially treated. Wipe the panel surface gently using only a cleaning cloth or a soft, lint-free cloth.

- If the surface is particularly dirty, soak a soft, lint-free cloth in diluted neutral detergent (1 part detergent diluted by 100 times the amount of water) and then wring the cloth to remove excess liquid. Use this cloth to wipe the surface of the display panel, then wipe it evenly with a dry cloth of the same type until the surface is dry.
- Do not scratch or hit the surface of the panel with fingernails or other hard objects. Furthermore, avoid contact with volatile substances such as insect sprays, solvents, and thinner; otherwise, the quality of the surface may be adversely affected.

Cabinet

If the cabinet becomes dirty, wipe it with a soft, dry cloth.

- If the cabinet is particularly dirty, soak the cloth in a weak detergent solution and then wring the cloth dry. Use this cloth to wipe the cabinet and then wipe it dry with a dry cloth.
- Do not allow any detergent to come into direct contact with the surface of the Plasma TV. If water droplets get inside the unit, operating problems may result.
- Avoid contact with volatile substances such as insect sprays, solvents, and thinner; otherwise, the quality of the cabinet surface may be adversely affected or the coating may peel off. Furthermore, do not leave it for long periods in contact with articles made from rubber or PVC.

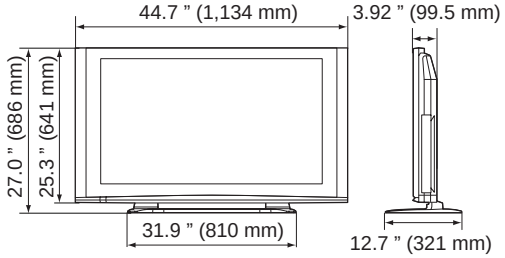
Pedestal

- Cleaning
  Wipe the surfaces with a soft, dry cloth. If the unit is particularly dirty, clean it using a cloth soaked with water to which a small amount of neutral detergent has been added and then wipe with a dry cloth.
  Do not use products such as solvents, thinner, or household wax for cleaning, as they can damage the surface coating. (If using a chemically-treated cloth, follow the instructions supplied with the cloth.)
- Do not attach sticky tape or labels, as they can make the surface of the pedestal dirty. Do not allow long-term contact with rubber, vinyl products, or the like. (Doing so will cause deterioration.)

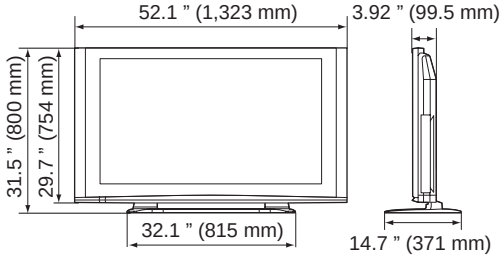
Specifications

		TH-42PC77U	TH-50PC77U
Power Source		AC 120 V, 60 Hz	
Power Consumption	**Maximum**	387 W	499 W
	Standby condition	0.2 W	0.2 W
Plasma Display panel	**Drive method**	AC type	
	Aspect Ratio	16:9	
	Visible screen size (W × H × Diagonal)	42 ” (Diagonal)	50 ” (Diagonal)
		36.2 ” × 20.4 ” × 41.6 ” (922 mm × 518 mm × 1,057 mm)	43.5 ” × 24.4 ” × 49.9 ” (1,106 mm × 622 mm × 1,269 mm)
	(No. of pixels)	786,432 (1,024 (W) × 768 (H)) [3,072 × 768 dots]	1,049,088 (1,366 (W) × 768 (H)) [4,098 × 768 dots]
Sound	**Audio Output**	20 W [10 W + 10 W] (10 % THD)	
Channel Capability (Digital/Analog)		VHF/ UHF: 2 - 69, CATV: 1 - 135	
Operating Conditions		Temperature: 32 °F – 104 °F (0 °C – 40 °C) Humidity: 20 % – 80 % RH (non-condensing)	
Connection Terminals	**INPUT 1-3**	VIDEO: RCA PIN Type × 1 1.0 V [p-p] (75 Ω) S-VIDEO: Mini DIN 4-pin Y: 1.0 V [p-p] (75 Ω) C: 0.286 V [p-p] (75 Ω) AUDIO L-R: RCA PIN Type × 2 0.5 V [rms]	
	COMPONENT VIDEO INPUT 1-2	Y: 1.0 V [p-p] (including synchronization) P_B, P_R: ±0.35 V [p-p] AUDIO L-R: RCA PIN Type × 2 0.5 V [rms]	
	HDMI 1-2 **AUDIO IN**	TYPE A Connector × 2 ● This TV supports “HDAVI Control 2” function. AUDIO L-R: RCA PIN Type × 2 0.5 V [rms]	
	Card slot	SD CARD slot × 1	
	AV PROG. OUT	VIDEO: RCA PIN Type × 1 1.0 V [p-p] (75 Ω) AUDIO L-R: RCA PIN Type × 2 0.5 V [rms]	
	DIGITAL AUDIO OUT	PCM / Dolby Digital, Fiber Optic	
FEATURES		3D Y/C FILTER CLOSED CAPTION V-Chip Photo viewer HDAVI Control 2	
Dimensions (W × H × D)	**Including pedestal**	44.7 ” × 27.0 ” × 12.7 ” (1,134 mm × 686 mm × 321 mm)	52.1 ” × 31.5 ” × 14.7 ” (1,323 mm × 800 mm × 371 mm)
	TV Set only	44.7 ” × 25.3 ” × 3.92 ” (1,134 mm × 641 mm × 99.5 mm)	52.1 ” × 29.7 ” × 3.92 ” (1,323 mm × 754 mm × 99.5 mm)
Mass	**Including pedestal**	66.2 lb. (30 kg)	90.4 lb. (41 kg)
	TV Set only	60.7 lb. (27.5 kg)	86.0 lb. (39 kg)

[TH-42PC77U]



[TH-50PC77U]



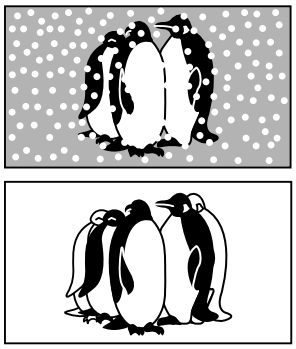
Note

● Design and Specifications are subject to change without notice. Mass and Dimensions shown are approximate.

FAQ

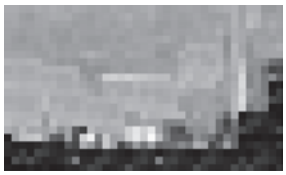
Before requesting service or assistance, please follow these simple guides to resolve the problem.
If the problem still persists, please contact your local Panasonic dealer or Panasonic Service Center for assistance.
For details (p. 55)
For additional assistance, please contact us via the website at:
www.panasonic.com/contactinfo
www.panasonic.ca

White spots or shadow images (noise)



- Check the position, direction, and connection of the aerial.

Interference or frozen digital channels (intermittent sound)



- Change the direction of antenna for digital channels.
- Check “Signal meter” (p. 35). If the signal is weak, check the antenna and consult your local dealer.

Pictures from external equipment are distorted when the unit is connected via HDMI

- Is the HDMI cable connected properly? (p. 40-41)
- Turn Off the TV unit and equipment, then turn them On again.
- Check an input signal from the equipment. (p. 49)
- Use equipment compliant with EIA/CEA-861/861B.

The remote control does not work

- Are the batteries installed correctly? (p. 6)
- Has the battery run down?
- To operate external equipment of other manufacturers, register the remote control codes. (p. 39)

If there is a problem with your TV, please refer to the table below to determine the symptoms, then carry out the suggested check. If this does not solve the problem, please contact your local Panasonic dealer, quoting the model number and serial number (both found on the rear of the TV).

	Problem	Actions
Screen	**“Press any key to return” moves on the screen**	● The function to prevent “Image retention” is activated. (Not a faulty symptom) ● The screen saver is activated if the TV unit is not operated for a certain time in SD mode. ● “Image retention” (p. 5)
Screen	**One spot remains dark**	● A pixel or luminescent spot can occasionally be missing in plasma displays. (Not a faulty symptom)
Screen	**Chaotic image, noisy**	● Check nearby electrical products (car, motorcycle, fluorescent lamp).
Screen	**No image can be displayed**	● Check Picture menu (p. 26)
Screen	**Only spots are displayed instead of images**	● Check the channel settings. (p. 34) ● Check the antenna cables.
Screen	**Neither image nor sound is produced**	● Is the AC power cord plugged into the outlet? ● Is the TV unit turned On? ● Check Picture menu (p. 26) and volume. ● Are the remote control codes correct? (p. 43-45)
Screen	**Black Box appears**	● Change settings of Closed Caption (CC). (p. 36)
Sound	**No sound is produced**	● Are the speakers’ cables connected correctly? (p. 40) ● Is “Sound Mute” active? (p. 17) ● Is the volume set to the minimum? ● Is “Speaker output” set to “Off”? (p. 26) ● Change “SAP” settings. (p. 20) ● Check “HDMI 1 in” or “HDMI 2 in” settings. (p. 26)
Sound	**Sound is unusual**	● Set “SAP” setting to “Stereo” or “Mono.” ● Check the HDMI device connected to the unit. ● Set the audio setting of the HDMI device to “Linear PCM.” ● If digital sound connection has a problem, select analog sound connection.

Limited Warranty (for U.S.A.)

**PANASONIC CONSUMER ELECTRONICS COMPANY,
DIVISION OF
PANASONIC CORPORATION OF NORTH AMERICA
One Panasonic Way
Secaucus, New Jersey 07094**

**PANASONIC SALES COMPANY,
DIVISION OF
PANASONIC PUERTO RICO, INC.
Ave. 65 de Infanteria, Km. 9.5
San Gabriel Industrial Park
Carolina, Puerto Rico 00985**

Panasonic Color Television
Limited Warranty

Limited Warranty Coverage
If your product does not work properly because of a defect in materials or workmanship, Panasonic Consumer Electronics Company or Panasonic Puerto Rico, Inc. (collectively referred to as "the warrantor") will, for the length of the period indicated on the chart below, which starts with the date of original purchase ("Limited Warranty period"), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

CATEGORIES	ALL PARTS EXCEPT GLASS PANEL OR CRT	LABOR	GLASS PANEL OR CRT	GLASS PANEL OR CRT LABOR	SERVICE
PLASMA DISPLAY	1 (ONE) YEAR	1 (ONE) YEAR	GLASS PANEL - 2 (TWO) YEARS	1 (ONE) YEAR	IN-HOME OR CARRY-IN

During the "Labor" Limited Warranty period there will be no charge for labor. During the "Parts" Limited Warranty period, there will be no charge for parts.
You must carry-in your product or arrange for in-home service during the Limited Warranty period. If non-rechargeable batteries are included, they are not warranted. This Limited Warranty only applies to products purchased and serviced in the United States or Puerto Rico. This Limited Warranty is extended only to the original purchaser and only covers product purchased as new. A purchase receipt or other proof of the original purchase date is required for Limited Warranty service.

In-Home or Carry-in Service
For In-Home or Carry-In Service in the United States call 1-888-VIEW-PTV(1-888-843-9788).
For assistance in Puerto Rico call Panasonic Puerto Rico, Inc. (787)-750-4300 or fax (787)-768-2910.

In-Home service requires clear, complete and easy access to the product by the authorized servicer and does not include removal or re-installation of an installed product. It is possible that certain in-home repairs will not be completed in-home, but will require that the product, or parts of the product, be removed for shop diagnosis and/or repair and then returned.

Limited Warranty Limits And Exclusions
This Limited Warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage, nor does it cover markings or retained images on the picture tube resulting from viewing fixed images (including, among other things, letterbox pictures on standard 4:3 screen TV's, or non-expanded standard 4:3 pictures on wide screen TV's, or onscreen data in a stationary and fixed location). The Limited Warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accidents, misuse, abuse, neglect, bug infestation, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, or commercial use (such as in a hotel, office, restaurant, or other business), rental use of the product, service by anyone other than a Factory Service Center or other Authorized Servicer, or damage that is attributable to acts of God.

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE". THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS LIMITED WARRANTY. (As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, or travel to and from the servicer. The items listed are not exclusive, but are for illustration only.) **ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE LIMITED WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.**

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied Limited Warranty lasts, so the exclusions may not apply to you.

This Limited Warranty gives you specific legal rights and you may also have others rights which vary from state to state. If a problem with this product develops during or after the Limited Warranty period, you may contact your dealer or Service Center. If the problem is not handled to your satisfaction, then write to the warrantor's Consumer Affairs Department at the addresses listed for the warrantor.

PARTS AND SERVICE (INCLUDING COST OF AN IN-HOME SERVICE CALL, WHERE APPLICABLE) WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY ARE YOUR RESPONSIBILITY.

Customer Services Directory (for U.S.A.)

Customer Services Directory

Obtain Product Information and Operating Assistance; locate your nearest Dealer or Service Center; purchase Parts and Accessories; or make Customer Service and Literature requests by visiting our Web Site at:

http://www.panasonic.com/consumersupport

or, contact us via the web at:

http://www.panasonic.com/contactinfo

You may also contact us directly at:

1-888-VIEW-PTV (843-9788)

Monday-Friday 9 am-9 pm; Saturday-Sunday 10 am-7 pm, EST.

■For hearing or speech impaired TTY users, TTY: 1-877-833-8855

Accessory Purchases

Purchase Parts, Accessories and Instruction Books on line for all Panasonic Products by visiting our Web Site at:

http://www.pstc.panasonic.com

or, send your request by E-mail to:

npcparts@us.panasonic.com

You may also contact us directly at:

1-800-332-5368 (Phone) 1-800-237-9080 (Fax Only) (Monday - Friday 9 am to 8 pm, EST.)

Panasonic Service and Technology Company

20421 84th Avenue South,

Kent, WA 98032

(We Accept Visa, MasterCard, Discover Card, American Express, and Personal Checks)

■For hearing or speech impaired TTY users, TTY: 1-866-605-1277

Service in Puerto Rico

Panasonic Puerto Rico, Inc.
Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park,
Carolina, Puerto Rico 00985
Phone (787)750-4300, Fax (787)768-2910

Limited Warranty (for Canada)

Panasonic Canada Inc.

PANASONIC PRODUCT - LIMITED WARRANTY

Panasonic Canada Inc. warrants this product to be free from defects in material and workmanship and agrees to remedy any such defect for a period as stated below from the date of original purchase.

Plasma TV / Monitor	**In-home service**	**One (1) year, parts (including Plasma Panel) and labour.**
LCD TV (26 in & over)	**In-home service**	**One (1) year, parts (including LCD Panel) and labour.**
LCD TV (25 in & under)	**Carry-in service only**	**One (1) year, parts (including LCD Panel) and labour.**

In-home Service will be carried out only to locations accessible by roads and within 50 km of an authorized Panasonic service facility.

LIMITATIONS AND EXCLUSIONS

This warranty does not apply to products purchased outside Canada or to any product which has been improperly installed, subjected to usage for which the product was not designed, misused or abused, damaged during shipping, or which has been altered or repaired in any way that affects the reliability or detracts from the performance, nor does it cover any product which is used commercially. Dry cell batteries are also excluded from coverage under this warranty.

This warranty is extended to the original end user purchaser only. A purchase receipt or other proof of date of original purchase is required before warranty service is performed.

THIS EXPRESS, LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL PANASONIC CANADA INC. BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES.

In certain instances, some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, or the exclusion of implied warranties, so the above limitations and exclusions may not be applicable.

In-home service requires clear, complete and easy access to the product by the Authorized Servicentre and does not include removal or re-installation of an installed product. If removal is required to service the product, it will be at the discretion of the Servicentre and in no event will Panasonic Canada Inc. or the Servicentre be liable for any special, indirect or consequential damages.

WARRANTY SERVICE

For product operation and information assistance, please contact:

Our Customer Care Centre:
Telephone #: (905) 624-5505
1-800 #: 1-800-561-5505
Fax #: (905) 238-2360
Email link: “Customer support” on www.panasonic.ca

FOR PRODUCT REPAIRS, please locate your nearest Authorized Servicentre at www.panasonic.ca:
Link: “Servicentres™ locator” under “Customer support”

IF YOU SHIP THE PRODUCT TO A SERVICENTRE

Carefully pack and send prepaid, adequately insured and preferably in the original carton.
Include details of the defect claimed, and proof of date of original purchase.

Customer's Record
The model number and serial number of this product can be found on its back cover. You should note this serial number in the space provided below and retain this book, plus your purchase receipt, as a permanent record of your purchase to aid in identification in the event of theft or loss, and for Warranty Service purposes.

Model Number _____ Serial Number _____

Anotación del cliente
El modelo y el número de serie de este producto se encuentran en su panel posterior. Deberá anotarlos en el espacio provisto a continuación y guardar este manual, más el recibo de su compra, como prueba permanente de su adquisición, para que le sirva de ayuda al identificarlo en el caso de que le sea sustraído o lo pierda, y también para disponer de los servicios que le ofrece la garantía.

Modelo _____ Número de serie _____

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